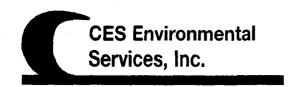
Oceaneering Intl(Charles St)
2493



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/30/2007

Dear Chris Hill

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2493

Generator: Oceaneering International, Inc. (Charles Street)

Address: 11800 Charles Street

Houston, TX 77041

#### Waste Information

Name of Waste: Glycol from hydrostatic testing of hose (same stream as CES 1

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Spent glycol solution

Color: blluish green to yellow Odor: glycol pH: 7-10

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

**ISWR No: 30900** 

SECTION 1: Gener	ator Information			
Company:	Oceaneering Internation	onal, Inc.		
Address:	11800 Charles Street			
City, State, Zip:	Houston, TX 77041			
Contact:	Chris Hill		Title:	Ops. Manager
Phone No:			Fax No:	
24/hr Phone:	CES-713-676-1460			
U.S. EPA I.D. No:	-CESQG		-	۸
State I.D.	CESQG		SIC Code:	NA
				700
	Information & Sam		Y' In	•-
Company:	OCEMINE	Certify L17	y C IV	<u></u>
Address:	1/7/	Hm.	527	
City, State, Zip:	H, TX	77041		
Contact:	(do 1/3 /	Title:		
Phone No:		Fax No:		
SECTION 3: General	al Description of the W	aste		
		sting of Hose (Same Stre Waste: Spent Glycol So		· ·
Physical State:	☑ Liquid □	] Sludge [	Powder	
I hy bicai seace.		Filter Cake		
	□ Solid □	_ riner cake _	Combination	
Color: bluish green/ye	ellow Odo	r: glycol		
Specific Gravity (wat	ter=1): <u>.95-1.0</u>	Density: 8 lbs/gal		
Layers:	⊠ Single-phase	Multi-phase		
Container Type:	☑ Drum □	Tote	Truck	Other (explain)
Container Size:	55 gal		11401	
Container Size.	<u>55 gai</u>			
T	[] XXVL.L. [5]	7		□ <b>VI</b>
Frequency:	☐ Weekly ▷	☑ Monthly □	Quarterly	∐ Yearly
Number of Units (cor		Other:		
Texas State Waste Co	ode No: NA-Re	ecyclable Material		
Proper U.S. DOT Shi	pping Name:	Non-RCRA; Non-DC	T Regulated Mate	erial
Class: NA	UN/NA:	NA	PG: NA	RQ: NA
		·		
Flash Point	pH Re	active Sulfides	Reactive Cya	nides Solids
none	-	ng/l	0mg/l	2-5%
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0-1000mg/l	Omg/l	Omg/l

#### SECTION 4: Physical and Chemical Data

Ranges are acceptable	or %
30-70	%
0-10	%
40-70	%
0-10	%
0-2	%
-	30-70 0-10 40-70 0-10

SECTION	DN 5	: Safe	ty Related	Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.  $\frac{M8DS}{\sqrt{0}} = \sqrt{0}$ 

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

none

TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles:

Reactivity:

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

Corrosivity:	<u>X</u>					
Ignitability:	<u>X</u>					
SECTION 9: Gene	erator's Certification					
The information con attached description	ntained herein is based is complete and accu	on generator know rate to the best of n	wiedge and/or ana	lytical data. I he	ereby certify that the above the that no deliberate or v	ve and willful
					ed. I certify that the ma	
tested are representa	tive of all materials des	cribed by this docum	ent			

Authorized Signature:

Printed Name/Title:

Off Affingson.

Date: 10/16/07

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Sout off site for recording
O	sery officers
Compliance Officer: Koblem Dlanga	Sent offsite for recycling Additional Information: 30 Man
Date: 10-30-07 Approved Rejected	Trans 200° +FSC
Approval Number: 2493	REC

ECTION 10: Waste Receipt Classification Under 40 CFR 437
this material a wastewater or wastewater sludge?   YES   NO
'Yes', complete this section.
LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
als Subcategory: Subpart A
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Subcategory: Subpart B
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
nics Subcategory: Subpart C
Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the w	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chromi Copper	m: 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L 37.5 mg/L
(3)		raste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory

## **SECTION 11: Additional Instructions**

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Ancon Group 2494 2494

EPAHO107001333

# 1/ 7

ENVIRON EXPRESS LABS 401 N. 11TH STREET LA PORTE, TEXAS 77571 281-471-0951 (WORK) 281-471-5821 (FAX)

## **FACSIMILE COVER**

COMPANY: CES ENVIRONMENTAL

PLEASE DIRECT FOLLOWING PAGE(S) TO: Joy

PAGES INCLUDING COVER LETTER: 7

Profile # 2494 Arcon Group

FAX: 713-676-1676

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this message in error, please notify us immediately by telephone and return the original message to us at the above address via postal service, at our expense.



#### ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

62422.01

1of 1

Customer: Select Env.

Sample ID: Conroe #1

Environ ID: 62422.01

Project ID: Conroe - Bldg. 1

Matrix: Solid

Sampled: 10-12-07

Project Loc: Conroe, TX

Received: 10-12-07

Project No: #1

Type: Grab

Reported: 10-22-07

RECEIVED BASIS

HECEIVED BASIS										
ANALYTE /	A	ESULT	UNITS	REG.	MQL	TEST	TEST	DATE	TIME	
PARAMETER			<u></u>	LIMIT	<u> </u>	METHOD	BY			
BTEX					· .					
Benzene	<	0.001	mg/kg	<b>\</b>	0.001	SW846.8021B	DMB	10-15-07	12:09	
Toluene	<	0.001	mg/kg		0.001	SW846.8021B	DMB	10-15-07	12:09	
Ethylbenzene	<	0.001	mg/kg	<b>)</b>	0.001	SW846.8021B	DMB	10-15-07	12:09	
Xylenes	<	0.003	mg/kg		0.003	SW846.8021B	DMB	10-15-07	12:09	
Total BTEX	<	0.006	mg/kg			SW846.8021B	DMB	10-15-07	12:09	
TOT. PET. HYDROCARE	BON			]						
GRO (Gasoline Range)	<	50	mg/kg		50	TCEQ 1005.03	DB	10-13-07	03:09	
DRO (Diesel Range)	<	50	mg/kg		50	TCEQ 1005.03	DB	10-13-07	03:09	
ORO (Oil Range)	<	50	mg/kg		50	TCEQ 1005.03	DB .	10-13-07	03:09	
TOTAL TPH	<	50	mg/kg	-	50			10-13-07	03:09	
METALS (RCRA) - TCLP				ł		SW846.1311	MN	10-12-07	ļ	
Arsenic	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	10-15-07	14:00	
Barium	! 	1.76	mg/l	100	0.02	SW846.6010B	JA	10-15-07	14:00	
Cadmium	<	0.02	mg/l	1.00	0.02	SW846.6010B	JA	10-15-07	14:00	
Chromium	<	0.02	mg/l	5.00	0.02	SW846,6010B	JA	10-15-07	14:00	
Lead	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	10-15-07	14:00	
Selenium	<	0.05	mg/l	1.00	0.05	SW846.6010B	JA	10-15-07	14:00	
Silver	<	0.05	mg/i	5.00	0.05	SW846.6010B	JA	10-15-07	14:00	
Mercury	<	0.004	mg/t	0.200	0.004	SW846.7470A	MN	10-15-07	08:00	
					'					
			<u> </u>	<u> </u>		<u> </u>				

Definitions:

TCLP - Toxcisity Charasteric Leaching Proced TPH - Total petroleum Hydrocarbons

REG - Regulatory Limit (User Should Confirm Limits)

MQL - Method Quanitation Limit

PPM - Parts Per Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller, Ph.D Laboratory Director

# **ENVIRON EXPRESS QUALITY CONTROL REPORT**

ANALYST:	dmb	UNITS:	mg/kg	NO.SAMPLES: 15

SAMPLES:	62418-01	62419-01	62420-01	62422-01	62425-01	62427-01	62428-01	62440-01
	62442-01•	62442-02•	62447-01	62447-02	62449-01	62450-01	62451-01	

MATRIX	MATRIX	SPIKE	MS	MS	MSD	RPD	CCV	MB	QC LIMI	TS (%)
62420-01	RESULTS	ADDED	RESULTS	REC	REC		REC		REC-RANGE	RPD
BENZ	3	439	392	89	82	8	86	0	60 - 120	20
TOL	0	439	379	86	81	6	88	0	60 - 120	20
ETBZ	0	439	394	90	83	8	91	0	60 - 120	20
XYLS	0	1316	1159	88	81	8	86	0	60 - 120	20
MTBE	0	439	362	82	77	7	63	0	60 - 120	20

KEY:

BTEX - Benzene (BENZ), Toluene (TOL)
Ethylbenzene (ETBZ), Xylenes (XYLS)

MTBE - Methyl-tert-butyl ether

CCV - Continuing Calibration Verification

MB - Method Blank

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative Percent Difference

**REC - Recovery Percent** 

JOHN KELLER, Ph.D Lab.Dir./QA-QC Mgr.

10/24/07

DATE

#### # 4/

## **ENVIRON EXPRESS QUALITY CONTROL REPORT**

ANIAL MOICE	TOU	AACTUOD.	TNIDO	C 100E C
ANALYSIS:	TPH	METHOD:	INAC	C 1005.3
, ,, ,, ,,, ,, ,, ,, ,, ,, ,, ,, ,,				

		MATRIX:	SOIL	IUNITS:			
ANIAI VOT	dmb				mg/kg	SAMPLES: 10	
IIANALYST:						IOAWITLES: IU	
						JOURNIL FFO. 10	

SAMPLES:	62418-01	62419-01	62420-01	62422-01	62423-01	62423-02	62425-01
	62426-01	62427-01	62428-01	·			

QC SAMPLE	MB	CCV	LCS	MS	MSD	MS-MSD	QC L	MITS
62420-01	mg/kg	REC	REC	REC	REC	RPD	REC	RPD
GRO RESULT	< 50	107%	87%	87%	90%	3%	75-125	20
DRO RESULT	< 50	119%	94%	96%	91%	5%	75-125	20

JOHN KELLEY, Ph.D, Landing And Mgr.

10/16/07

DATE

KEY:

And to Chapter Survey

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

**CCV - Continuing Calibration Verification** 

MB - Method Blank

LCS - Laboratory Control Sample

MS - Matrix Spike

MSD - Matrix Spike Duplicate

RPD - Relative % Difference

REC - Recovery %

62380.01

ō

0

75 - 125

75 - 125

75 - 125

20

20

20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

5

5

0.00

0.00

0.00

Lead

Silver

Selenium

4.34

4.81

4.73

### **ENVIRON EXPRESS QUALITY CONTROL REPORT**

METALS		METHOD:	EPA SW8	46/6010		MATRIX:	LIQUID
<u>JA</u>	[DATE:	10.15.07	[UNITS:	PPM (mg/l)		NO.SAMPLES:	7
62422.01	62423.01	62424.01	62425.01	62426.01	62427.01	62428.01	
	<b> </b>		<del> </del>			<del></del>	<del> </del>
	JA	JA (DATE:	JA (DATE: 10.15.07	JA   DATE: 10.15.07   UNITS:	JA  DATE: 10.15.07  UNITS: PPM (mg/l)	JA [DATE: 10.15.07 [UNITS: PPM (mg/l)	JA   DATE: 10.15.07   UNITS: PPM (mg/l)   NO.SAMPLES:

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	REL.	CONT.	METHOD	QC LIN	NTS
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF. %	CALIB.	BLANK	RECOV.	DIFF.
Arsenic	0.00	5	4.56	91	96	6	87	0	75 - 125	20
Barium	0.00	5	4.47	89	94	5	94	0	75 - 125	20
Cadmium	0.00	5	4.53	91	95	4	96	0	75 - 125	20
Chromium	0.00	5	4.41	88	92	4	90	0	75 - 125	20

90

104

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John Keller JOHN KELLER, Ph.D Laboratory Director

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97

BATCH ID:

# **ENVIRON EXPRESS QUALITY CONTROL REPORT**

ļ	ANALYSIS:	MERCURY	METHOD: EP	A SW846/7471A	MATRIX:	LIQUID

ANALYSTS: MN	DATE:	10-15-07	UNITS:	mg/l	NO.SAMPLES:	7

SAMPLES:	62422.01	62423.02	62424.01	62425.01	62426.01	62427.01	62428.01-	
ł				,				

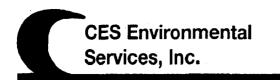
## MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	AEL.	CONT.	METH.	CORR.	QCL	MITS I
Matrix	RESULTS	ADDED	RESULTS	%	DUP. %	DIFF.	CALIB.	BLANK	COEFF.	RECOV.	DIFF.
MERCURY	0.00	0.002	0.002	100	100	0	100	0	1	60 - 120	20

JOHN KELLER, Ph.D Laboratory Director

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ENVIRON	,	Company: Selec	4 <	<u>ک</u> مر	3 <del>7</del> J			Comp	•	< ,	(	_	Ç	٠٨٠	<i>.</i>	7-		+	AB LC	T#			Preser		_
Express Laboratories Page of	<u>{</u>	Address: Z2-3 M	رمب	4	Ds.			Addre	ss: 2	23	/	w C	w4		ر(			. 1	Ye		٥.	San	Des Se		
ENVIRON EXPRESS LABORATORIES, II 401 North 11th. St. / La Porte, Texas 7757		cily 1401.		State:		Zip: <b>70 č</b>	29	City:		开	. بـ(	7	۴.	State:	Sos	<u> </u>	Zip:		Ye		0			No	
(281) 471-0951 / (800) 880-0156 Fax: (281) 471-5821 / After Hours: (281) 8 e-mail: environexp@aol.com	44-2308	Phone: 281-91 Fax: 113- 255 e-Mail:	11h	167				Phon Fax: PO#:	e:		1/3-	<u>6 ) 5</u>	- 7 ) Quote	2.2				$\Box$		Temp. O. Re OK		Yes		(NA	
Project Name: Conroc - Bld. 1	Samp	ler Remarks:	<sup>2</sup> Cntr. Numbe	Туре	P								Quote	<b>.</b>					Ye.		0	Yes	CI2 Ch No	(NA	
Project Location: Convor 7.			Volum		500 N														'es	No	NA) arks & A	1	Yes )	No	
Project No: # 1										OTAI A TC		1						$\neg$							
Sampler (Print): Ken'n White	_			(G)PA		(65.3)			S	S	S WE							-							
Sampler (Sign):  EEL USE ONLY SAMPLE ID.		DATE/TIME	MATRIX	(C)OMP / (G)PAB	BTEX (802715)	FPH (1×1005.3)		-	VOLATILES	SEMI-VOLS	RCHA 8 ME		}					}							
(LAB NO.)		SAMPLED 07:00	Σ̈́	<del></del>			Æ	PAH	ĩόλ	SEA		/	_					4							
62422.01 1) Course #	1_	10-12-07	50	G		V					7						$\vdash \dashv$								
3)													$\dashv$					$\dashv$							
4)			<del> </del>										$\dashv$		_			$\dashv$		<del></del>					
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7)																									
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Relinquished By:	pany:			Date/	Time:				Rece	ived B	y:	-			····			ompa							
S:Soil W:Water WW:Wast	e Waler SI	:Sludge SO:Solid S	E-Sedi	ment I	:100	Ma hate	atrix W!·w	Key	 )B:∩	rgania	. 01	Oi D	Sinn	ım Sr	aid D	1 .0	ım Lie-	iid O	Othor						
	ner Type	Key		.,				pc <u>'</u>							<sup>3</sup> Pr	ese	vativ	e Ke	V		7:Na2	S2O3	8:None	·	
Delivery of samples constitutes acceptance of Environ	r's terms an	d conditions in the Price	e Sche	dule.																					_



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/30/2007

Dear Ron Kohler

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2494

Generator: Arcon Group Address: 188 FM 3083

Conroe, TX 77301

Waste Information

Name of Waste: Dirt, debris, solids, oil

TCEQ Waste Code #: CESQ3101

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Clean up from hydraulic oil spill on dirt

Color: brown

Odor: hydrocarbons

**pH:** 5-8

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

tal.com mit No: 30948 ISWR No: 30900

SECTION 1: Gener	rator Information	\ G.		
Company:		rion Group		
Address:	188	FM 3083		
City, State, Zip:		<u>4. 77301</u>	Title:	M
Contact:		<u> </u>	Fax No:	Mgr.
Phone No:	713-298-7		_ Lax 140:	
24/hr Phone:	713-298-72	در	-	
U.S. EPA L.D. No:	<u> </u>		SIC Code:	
State LD.	CESQG		- SIC Code:	
SECTION 2: Billing	g Information - S	ame as Above	, , ,	1.0
Company:		Sele	ect Environm	<del>}~</del>
Address:	22.28 MC			
City, State, Zip:	Hous fo			
Contact:	Keni- wil	Title:	Seles	
Phone No:	281-960-39	67 Fax No:	713-255-17	<u> </u>
am amvasi		****		
SECTION 3: Gener	ral Description of the	: Waste		
Name of Waste:	Dist. Debris	Solids, Oil	from hyelrout	in oil spill on dit
Deaned Description	. 011100000 0000100		4	V
Physical State:	Liquid	☐ Sludge [	Powder	
•	<b>⊠</b> Solid	Filter Cake	☐ Combination	
•	, ,			
Color: Brown	(	odor: Hydrocarbon		
	10 C	1/NG		·
Specific Gravity (wa	ater=1):	Density:lbs/gal	·	
	Ann.			
Layers:	Single-phase	Multi-phase		
	<b>~</b>		·	·
Container Type:	Drum _	Tote	] Truck	Other (explain)
Container Size:	_55cl ·	·		***
Frequency:	☐ Weekly	☐ Monthly ☐	] Quarterly [	Yearly
Number of Units (co		Other:		
	Carlo Nos		C Property	
Texas State Waste	Code No:	ESQ 3101		
Proper U.S. DOT S	hipping Name:	Non the	-Solid Cle	JE NONRCH, NON-DOT?
Class:	Δ UN/N		DC-	RQ: NA exercited
1	JA UNIN	A:	rg: NK	- NT moli
Flash Point	<b>pH</b> -8	Reactive Sulfides	Reactive Cyanide	s Solids
>140	5-8	<u> </u>	mg/l	<u>100 %</u>
Oil&Grease	TOC	Zinc	Copper	Nickel
71500 mg/l	718cmg/1		mg/l	_∂ mg/l

# SECTION 4: Physical and Chemical Data

COMPONENTS AND IN THE Waste consists of the following materials	Concentration  Ranges are acceptable	Units
The waste consists of the following materials	Ranges are acceptable	or %
oirt		80
On	0 -	- 10
Debris &	M-	+ 10

SECTION 5: Selety Related Data	
If the handling of this waste requires the use of special protective	e equipment, please explain.
SECTION 6: Attached Supporting Documents	
List old documents, notes, data, and/or analysis attached to this	form as part of the waste approval package.
SECTION 7: Incompatibilities	
Please list all incompatibilities (if any):	
SECTION 8: Generator's Knowledge Documentation	
Laboratory analysis of the hazardous waste characteristics, list generator knowledge:	ed below, WAS NOT PERFORMED based upon the following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:	
SECTION 9: Generator's Certification	•
The information contained herein is based on $\square$ generator knowle attached description is complete and accurate to the best of my	
Authorized Signature: for for	Date: 10-24-07
Printed Name/Title:	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Perhan Despa	Additional Information: Add to Class
Date: 10 -30-07 Approved Rejected	1 Box Characi Cos SS /Lan
Approval Number: 2494	+ trans + fsc.

ECTION 10: Waste Receipt Classification Under 40 CFR 437
this material a wastewater or wastewater sludge?   YES  NO
'Yes', complete this section.
LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
als Subcategory: Subpart A
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Subcategory: Subpart B
Used oils Oil-water emulsions or mixtures Lubricants Coolants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
anics Subcategory: Subpart C
Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron	ium: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L i: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



## ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

62422.01

10f 1

Customer: Select Env.

Sample ID: Conroe #1

Environ ID: 62422,01

Project ID: Conroe - Bidg. 1

Matrix Solid

Sampled: 10-12-07

Project Loc: Conroe, TX

Type: Grab

Received: 10-12-07

Project No: #1

Reported: 10-22-07

			RECEIVED BA	SIS					
ANALYTE / RESULT		UNITS	REG. LIMIT	MQL	TEST METHOD	TEST BY	DATE	TIME	
BTEX									
Benzene	<	0.001	mg/kg	ł	0.001	SW846.8021B	DMB	10-15-07	12:09
Toluene	<	0.001	mg/kg		0.001	SW846.8021B	DMB	10-15-07	12:09
Ethylbenzene	<	0.001	mg/kg	_	0.001	SW846.8021B	DMB	10-15-07	12:09
Xylenes	<	0.003	mg/kg		0.003	SW846.8021B	DMB	10-15-07	12:09
Total BTEX	<	0.006	mg/kg	-	}	SW846.8021B	DMB	10-15-07	12:09
TOT. PET. HYDROCARE	3ON		1		1	[		1	l
GRO (Gasoline Range)	<	50	mg/kg		50	TCEQ 1005.03	DB	10-13-07	03:09
DRO (Diesel Range)	<b> </b>	50	mg/kg		50	TCEQ 1005.03	DB	10-13-07	03:09
ORO (Oli Range)	<	50	mg/kg	} ~	50	TCEQ 1005.03	DB	10-13-07	03:09
TOTAL TPH < 50 ·		mg/kg	!	50			10-13-07	03:09	
METALS (RCRA) - TCLF	<b>.</b>			!	1	SW846.1311	MN	10-12-07	ļ
Arsenic	<	0.02	mg/i	5.00	0.02	SW846.6010B	JA	10-15-07	14:00
Barium	l	1.76	mg/i	100	0.02	SW846.6010B	AL	10-15-07	14:00
Cadmium	<	0.02	mg/l	1.00	0.02	SW846.6010B	JA	10-15-07	14:00
Chromium	<	0.02	mg/l	5.00	0.02	SW846.6010B	JA	10-15-07	14:00
Lead	<	0.02	mg/l	5.00	0.02	SW846,6010B	JA	10-15-07	
Selenium	<	0.05	mg/t	1.00	0.05	SW846.6010B	JA	10-15-07	
Silver	<	0.05	mg/i	5.00	0.05	SW846.6010B	JA	10-15-07	
Mercury < 0.004		mg/I	0.200	0.004	SW846.7470A	MN	10-15-07	08:00	
			)		[	[			
	L		1	l	<u> </u>	1		1	1

Doffnillens:

TCLP - Toxcistry Charasteric Leaching Proced TPH - Total potroleum Hydrocarbons

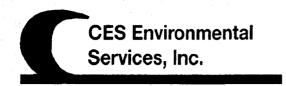
REG - Regulatory Limit (User Should Confirm Limits)

MCL - Mothed Quantitation Limit

PPM - Parts Por Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller, Ph.D Laboratory Director



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/31/2007

Dear Mike Tomerlin

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2495

Generator: Enterprise products Operating LP-Jacintoport Facility

Address: 15602 Jacintoport Rd

Houston, TX 77015

**Waste Information** 

Name of Waste: Oily absorbent pads and rags

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:**Oily pads and rags used to clean up equipment oil leaks

Color: varies

**Odor:** hydrocarbon

**pH**: 3-11

**Physical State:** 

**Incompatibilities:** none known

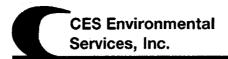
Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

<b>SECTION 1:</b> General	rator Information			
Company:	Enterprise Products (	Operating, LP (Jacintoport	Facility)	
Address:	15602 Jacintoport Ro	oad		
City, State, Zip:	Houston, TX 77015			
Contact:	Stephan Craig		Title:	HS&E Manager
Phone No:	281-385-4396		Fax No:	281-385-4532
24/hr Phone:	281-385-4396			
U.S. EPA I.D. No:	TX000032821		•	
State I.D.	86196		SIC Code:	NA
SECTION 2: Billing	g Information – 🗌 Sar	ne as Above		
Company:	Enterprise Products Ope	erating, LP		
Address:	P.O. Box 573			
City, State, Zip:	Mont Belvieu, TX 775	80		
Contact:	Lea Ann Pease	Title:		
Phone No:		Fax No:		
_				
SECTION 3: Gener	al Description of the V	Vaste		
	y absorbent pads and ra			
Detailed Description	of Process Generating	Waste: Oily pads and rag	gs used to clean	up equipment oil leaks
		_	-	
Physical State:	∐ Liquid	Sludge	Powder	
	⊠ Solid	Filter Cake	Combination	1
Color: varies	Odo	or: hydrocarbon		
<u> </u>		<u> </u>		
Specific Crowity (we	to=1). 1 1 1	Density: 9 lbs/gal na	7	
Specific Gravity (wa	101-1): 11-1 NA	Density. 3405/gai 1400		
•	∇7 c+ + +	□ 36 to 1		
Layers:	Single-phase	☐ Multi-phase		
Container Type:	⊠ Drum [	Tote	Truck	Other (explain)
Container Size:	<u>55 gal</u>		·	
<del>-</del>				
Frequency:	Weekly [	☐ Monthly	Quarterly	
Number of Units (co	ntainers): <u>20</u>	Other:		
<b>Texas State Waste C</b>	ode No: Recyc	clable		
Proper U.S. DOT Sh	ipping Name:	Rec yclable oily absort	ent pads	
•	•••			
Class: NA	UN/NA:	NA	PG: NA	RQ: NA
		-		
Flash Point	pH R	eactive Sulfides	Reactive Cy	anides Solids
>200	1 *	ng/l	Omg/l	90-100%
Oil&Grease	TOC		Copper	Nickel
NAmg/I	NAmg/I		<u>NA</u> mg/l	NAmg/l

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Absorbent Pads	90-95	%
Hydraulic oil	0-5	%
Water	0-5	%

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

None Known

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	$\underline{\mathbf{X}}$
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	X
Reactivity:	$\mathbf{X}$
Corrosivity:	$\underline{\mathbf{X}}$
Ignitability:	$\underline{\mathbf{X}}$

Authorized Signature:

#### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Printed Name/little:		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer:   Date: 10-31-07 Approved Rejected  Approval Number: 2495	Process Facility Information:  Chech with Ryan info.	för billing

Date: 10-31-07

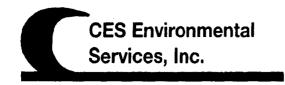
<u>S</u> ]	ECTION 10: Waste Receipt Classification Under 40 CFR 437	
Is	this material a wastewater or wastewater sludge?   YES NO	
If	'Yes', complete this section.	
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE A	NEXT PAGE.
Meta	als Subcategory: Subpart A	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment	
<u>Oils</u>	Subcategory: Subpart B	
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	
<u>Orga</u>	nics Subcategory: Subpart C	
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations	
	Tank clean-out from organic, non-petroleum sources	

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chroi Copp	nium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, of above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Oceaneering Intl 2496



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/31/2007

Dear Chris Hill

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2496

Generator: Oceaneering International, Inc. (Charles Street)

Address: 11800 Charles Street

Houston, TX 77041

## Waste Information

Name of Waste: Sump wash water TCEO Waste Code #: CESQ1142

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Cleaning of equipment that was returned from off-shore operations

Color: clear/grey

Odor: none

pH: neutral

**Physical State:** 

Incompatibilities: strong acids and bases Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener				
Company:	Oceaneering Internati	ional, Inc.		
Address:	11800 Charles Street			
City, State, Zip: Contact:	Houston, TX 77041 Chris Hill		Title:	Ops. Manager
Phone No:	Citis Filli		Fax No:	Ops. Manager
24/hr Phone:	CES-713-676-1460		_ Fax No.	
U.S. EPA I.D. No:	CESOG NA		-	
State I.D.	CESQO NC		SIC Code:	NA NA
Company: Address:	Information – 🛛 Sar	ne as Above		
City, State, Zip:		ent al		
Contact: Phone No:		Title: Fax No:		
Phone No:		Fax No:		
SECTION 3: Gener	al Description of the V	<u>Vaste</u>		
Name of Waste: Sun Detailed Description		g Waste: Cleaning of equi	pment that was	returned from off-shore operations
Physical State:	∠ Liquid     ✓ Liquid       Liquid	Sludge [	Powder	
i nysicai state.	Solid	Filter Cake	Combination	n ·
	□ Solid	Filter Cake		
Color: clear/gray	Ode	or: <u>none</u>		
Specific Gravity (was	ter=1): <u>1.0-1.02</u>	Density: 8 lbs/gal		
Layers:	Single-phase	☐ Multi-phase		
Container Type:	☐ Drum	☐ Tote 🖂	Truck	Other (explain)
Container Type.  Container Size:			1000	Ctrici (explain)
Container Size.			1000	-
	·			
Frequency:		oxtimes Monthly $oxtimes$	Quarterly	Yearly
Number of Units (con	ntainers): 1	Other:		
Texas State Waste Co	ode No: CESC	Q114 <b>2</b>		
Proper U.S. DOT Shi	ipping Name:	Non-RCRA; Non-DO	T Regulated Ma	aterial
Class: NA	UN/NA:	NA	PG: NA	RQ: NA
Flash Point	pH R	eactive Sulfides	Reactive C	yanides Solids
<u>&gt;150</u>		mg/l	Omg/l	<u>2-5</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
<1500mg/l	<1500mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/l

#### SECTION 4: Physical and Chemical Data

GOVIEDNIKI KIRKI BELI	(St.) (1.5.4) (1.5.4) (1.5.4)	Will Co
The waste consists of the following materials	Ranges are acceptable	OF %
Water with trace of salt	95-100	%
Dirt and scale	0-5	%

#### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analysis-Mercury 7100707

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): Strong acids and bases

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: TCLP Volatiles:	$\frac{1}{x}$
TCLP Semi-Volatiles:	X
Reactivity:	*
Corrosivity:	Ł
Ignitability:	4

#### SECTION 9: Generator's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the bost of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	Date: 10/3//*)
Printed Name/Title: CHR'S Hill	OPS MANAGER
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	ì. Z
Compliance Officer: Politer Plan	Additional Information: \$0.15/ga
Date: 10-31-67 Approved Rejected	fincludes 5000 TOC) : Trans
Approval Number: 2496	\$70/H& + FSC

3	ECTION 10: Waste Recept Classification Under 40 CFR 457
Is	this material a wastewater or wastewater sludge?   YES  NO
Tf	'Yes', complete this section.
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Met	als Suhcategory: Suhpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
<u>Oils</u>	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Orga</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations  Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in exces values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L I: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
	П	Organics Subcategory

## **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

# Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

**CES Environmental Services** 

4904 Griggs Rd Houston, TX 77021 Phone: (713) 676-1460

Fax: (713) 676-1676

Attn:

Gary Brauckman

- CERTIFICATE OF RESULTS -

MES Lab#:

7100707

Client Sample ID:

Wash Bay Water

Extended ID:

Oceaneering

Sample Collect Date: 10/25/2007 @ 10:00:00 AM

Sample Type:

Grab

Sample Receipt Date: 10/25/2007 @ 4:40:00 PM

7	est	Gro	up/	<i>Meth</i>	10d

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: AM Date / Time	
Antimony	0.032	1	< 0.032	mg/L	10/29/2007 / 3:56 PM	
Arsenic	0.014	5	< 0.014	mg/L	10/29/2007 / 3:56 PM	
Barium	0.0005	100	0.0481	mg/L	10/29/2007 / 3:56 PM	
Beryllium	0.0005	0.08	0.0007	mg/L	10/29/2007 / 3:56 PM	
Cadmium	0.002	1	< 0.002	mg/L	10/29/2007 / 3:56 PM	
Chromium	0.002	5	0.010	mg/L	10/29/2007 / 3:56 PM	
Lead	0.005	5	0.015	mg/L	10/29/2007 / 3:56 PM	
Nickel	0.003	70	0,232	mg/L	10/29/2007 / 3:56 PM	
Selenium	0.024	1	< 0.024	mg/L	10/29/2007 / 3:56 PM	
Silver	0.002	5	0.006	mg/L	10/29/2007 / 3:56 PM	
TCLP Mercury Method: SW-846 7470A	MDL_	RL	Result	Units	Analyst: AM Date / Time	
Mercury	0.0002	0.2	0.0003	mg/L	10/29/2007 / 4:03 PM	
Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL		Result	Units	Analyst: TFR Date / Time	
C6 - C12 Hydrocarbons	5		11	mg/L	10/27/2007 / 2:06 AM	
>C12 - C28 Hydrocarbons	5		< 5	mg/L	10/27/2007 / 2:06 AM	
>C28 - C36 Hydrocarbons	5	5		mg/L	10/27/2007 / 2:06 AM	
Total TPH	15		18	mg/L	10/27/2007 / 2:06 AM	

H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Glimore, Laboratory Director

Wednesday, October 31, 2007

**Date** 

Report Date: 31-Oct-07

Page 1 of 1

7100707

# MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L		CCV %REC	MS %REC	MSD %REC	RPD
Antimony	< 0.005	107.5	111	3.32	< 0.005	5	105	81.2	83.6	2.9
Arsenic	< 0.002	94	94	0.7	< 0.002		91	76.4	77.2	1.04
Barlum	< 0.002	105.0	105	0.43	< 0.002		101	65.2	67.7	3.8
Beryllium	< 0.002	109.6	110	0.73	< 0.002	2	107	82.1	84.6	3.1
Cadmium	< 0.001	109.4	110.9	1.32	< 0.001		107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.00	l	103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	2	107	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.000	)2	102.0			
Nickel	< 0.001	105	106	1.66	< 0.001		104	69.3	74.9	7.7
Selenium	< 0.024	108.1	91.4	16.7	< 0.024	ļ	87	64.9	61.8	5.0
Silver	< 0.001	110	109	0.91	< 0.001	1	104	73.4	75 6	3.06
ANALYTES_	METHOD TPH1005	MB mg/kg		CCV <u>%REC</u>	MS %REC	MSD %REC				
C6-C12		< 4		107.8	94.7	92.1				
C12-C28		< 8		103.7	90.8	88.5				

#### Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank

LCS=Laboratory Control Standard CCV=Continuing Calibration Verification CCB=Continuing Calibration Blank Rec=Percent Recovery

Signature:

Holland D. Gilmore / Laboratory Director

October 31, 2007

Mercury Environmental Services, Inc.

COMPANY NAME: (BILL TO:)

- CHAIN OF CUSTODY

1-800-771-4MES

14:54

Ethyl Corporation 2477



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax: (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 10/22/2007

Dear Steve Livesay

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2477

Generator: Ethyl Corporation

Address: 1000 N. South Street

Pasadena, TX 77501

#### Waste Information

Name of Waste: Gasoline detergent additive (H4995)

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Off spec unused product

Color: light yellow

Odor: aromatic to ammonia pH: na

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level c

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information					
Company:	Ethyl Corportation	· <u>* _</u>				
Address:	1000 N. South Street (	P.O. Box 472)				
City, State, Zip:	Pasadena, TX 77501					
Contact:	Dewaine Kay		Title:	Sr. Envr. S	pecialist.	
Phone No:	713-740-8371		Fax No:	713-740-83		
24/hr Phone:	CE\$-713-676-1460					
U.S. EPA I.D. No:	TXD008096158		<del></del>		1.4	
State I.D.	30465		SIC Code:	<u> </u>	<u> </u>	
SECTION 2: Billin	g Information — Sau	ie as Above				
Company:	Ethyl Corporation					
Address:	P.O. Box 472					
City, State, Zip:	Pasadena, TX 77501				<del> </del>	
Contact:	Steve Livesay	Title:	EHS Manager	-		
Phone No:	713-740-8371	Fax No				
SECTION 3: Gene	ral Description of the W	astc /				
	soline Detergent Additiven of Process Generating		used product			
Physical State:	□ Liquid     □ Solid     □	Sludge Filter Cake	Powder Combination	n		1944.
Color: light yellow	Odo	r: aromatic to ammon	<u>ia</u>			. •
Specific Gravity (w	ater=1); <u>.9092</u>	Density: <u>8</u> lbs/gal			t est store	
Layers:	⊠ Single-phase	Multi-phase				
Container Type: Container Size:	<b>☑ Drum</b> [ 55	_ Tote	☐ Truck		Other (explain)	
Frequency: Number of Units (c.	☐ Weekly [	Monthly Other:	☐ Quarterly		Yearly	
Texas State Waste	Code No: NA-R	ecyclable Material				
Proper U.S. DOT S	hipping Name:	Flammable liquids	, n.o.s., 3, UN 1993	, PG-II		
Class: 3	UN/NA:	UN 1993	PG: II		RQ: NA	
Flash Point	pH Re	eactive Sulfides	Reactive Cy	anides	Solids	
<u>104-130 F</u>	NA On	ng/l			0%	. [
Oil&Grease	TOC	Zinc	Copper	Nick		
>1500mg/I	>1500mg/l	Ome/I	Ome#	0		ſ

#### SECTION 4: Physical and Chemical Data

GOMPONEN	ISOMBUE —		Concentration	Units
The waste consists of th	e following materials		Ranges are acceptable	<b>61</b> %
polyolefin phenolic alkyleneamine	The second secon		30-60	74
Naphtha		<u> </u>	20-30	%
1,2,4-trimethyl-benzene			10-20	%
polyolefin phenol	ye.		5-10	%
N-Propylbenzene		<b>±</b> =	1- 5	%
Xylene and cumene			2-10	%

#### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level  $\underline{C}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS, CES Sample Evaluation

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	<u>X</u>
Corrosivity:	<u>X</u>
Ignitability:	X

#### SECTION 9: Generator's Certification

DESCRIPTION OF THE PROPERTY OF	
The information contained herein is based on $\boxtimes$ generator knowledge and/or $\square$ analy attached description is complete and accurate to the best of my knowledge and ability omissions of composition properties exist and that all known or suspected hazards have	ity to determine that no deliberate or willful
tested are representative of all materials described by this document.	
Authorized Signature: Awarm Fay	Date: <u>10-16-2007</u>

Printed Name/Title: Dewaine Kay/ Sr. Envr. Specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Le	h	Additional Informa	ation: 35°	Drum (Bless 1)
Date: 10-22-07 Approved		Trans	2000	mixu/Blackon
Approval Number: 2477			Robert	Recycle

		2000				
	TT7	A	<b>~~~</b>	WY 44		400
SECTION 10:	Waste	COCOINT (	MAITONITISSEL I	I maer at	1 T H K	447
	A A MORE T	eccount.	CATACAM PLANT	CHUCI 70	,	75,

Is this material a wastewater or wastewater sludge? YES

If Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Meta	als Subcategory: Subpart A			=	-
_					
$\sqcup$	Spent electroplating baths and/or sludges				
$\blacksquare$	Metal finishing rinse water and sludges			٠.	
Ц	Chromate wastes				
旦	Air pollution control blow down water and sludges				
Ш	Spent anodizing solutions				
	Incineration wastewaters				
	Waste liquid mercury				
	Cyanide-containing wastes greater than 136 mg/l				
	Waste acids and bases with or without metals				
	Cleaning, rinsing, and surface preparation solutions from electroplati	ing or p	hosphatin	g opera	ations
	Vibratory deburring wastewater		-	•	
	Alkaline and acid solutions used to clean metal parts or equipment				
Oils .	Subcategory: Subpart B				
	Used oils				
	Oil-water emulsions or mixtures				
	Lubricants				
	Coolants				
	Contaminated groundwater clean-up from petroleum sources				
	Used petroleum products				
	Oil spill clean-up				
	Bilge water				
	Rinse/wash waters from petroleum sources		•		
П	Interceptor wastes				
靣	Off-specification fuels				
	Underground storage remediation waste				
П	Tank clean-out from petroleum or oily sources				
□	Non-contact used glycols				
$\sqcap$	Aqueous and oil mixtures from parts cleaning operations				
П	Wastewater from oil bearing paint washes				
Orga	nics Subcategory: Subpart C				
П	Landfill leachate				
Ħ	Contaminated groundwater clean-up from non-petroleum sources				
Ħ	Solvent-bearing wastes				
ñ	Off-specification organic product				
Ħ	Still bottoms		*		
Ħ	Byproduct waste glycol				
Ħ	Wastewater from paint washes	le*			
Ħ	Wastewater from adhesives and/or epoxies formulation				
Ħ	Wastewater from organic chemical product operations				
Ħ	Tank clean-out from organic, non-petroleum sources				
_					

		THE REAL PROPERTY.			- Contract of the Contract of
/1\	76.1		1100 7		!! !
111	If the Water companies oil and o	reade at or taievceds or	THE MOVE THE WASTES	indilia neeriaggiriea in me	A UNIT SITURATEDULA
141	II the waste contains on and a	TORON OF ALTERACOR OF	TOO THE THE WHOLE IS		, cm san <del>omi</del> ckor,
· -/-	If the waste contains oil and g				

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory
Oils Subcategory

Organics Subcategory

#### SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

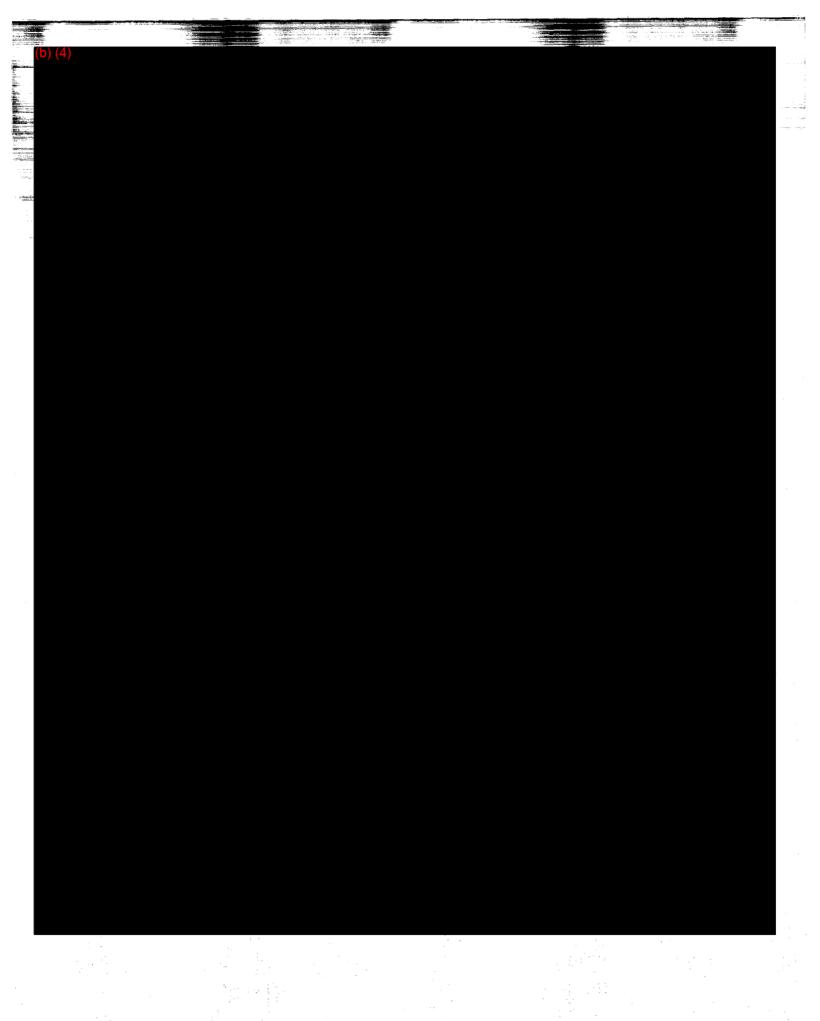


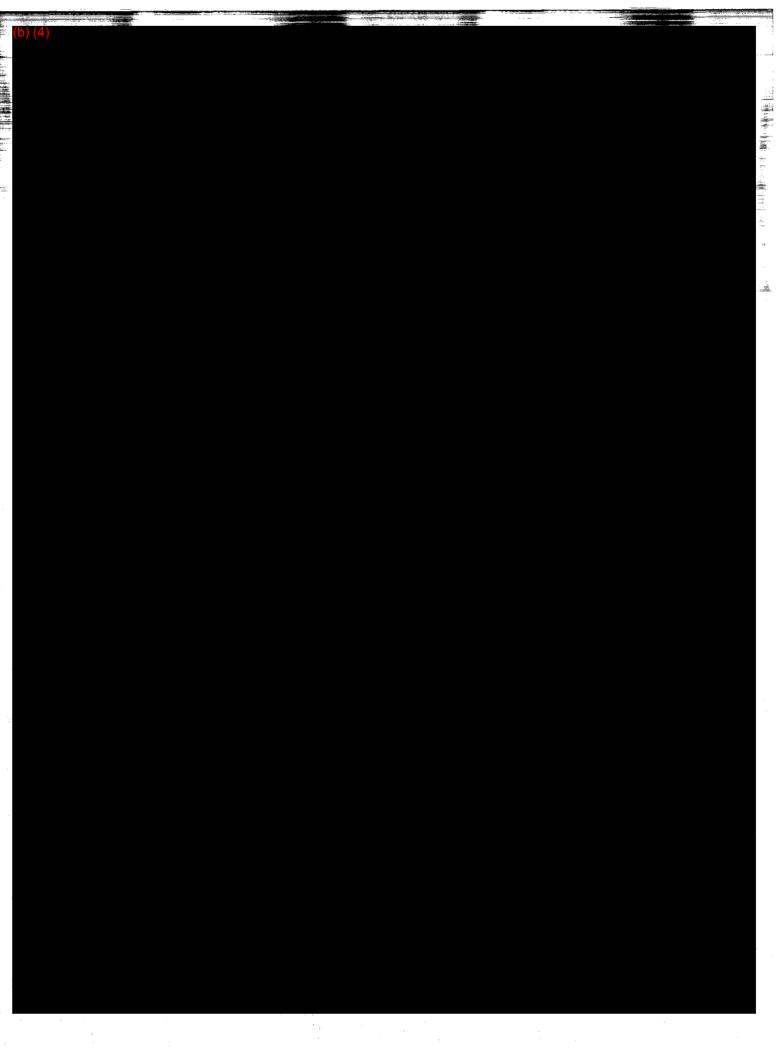
# Sample Evaluation Form

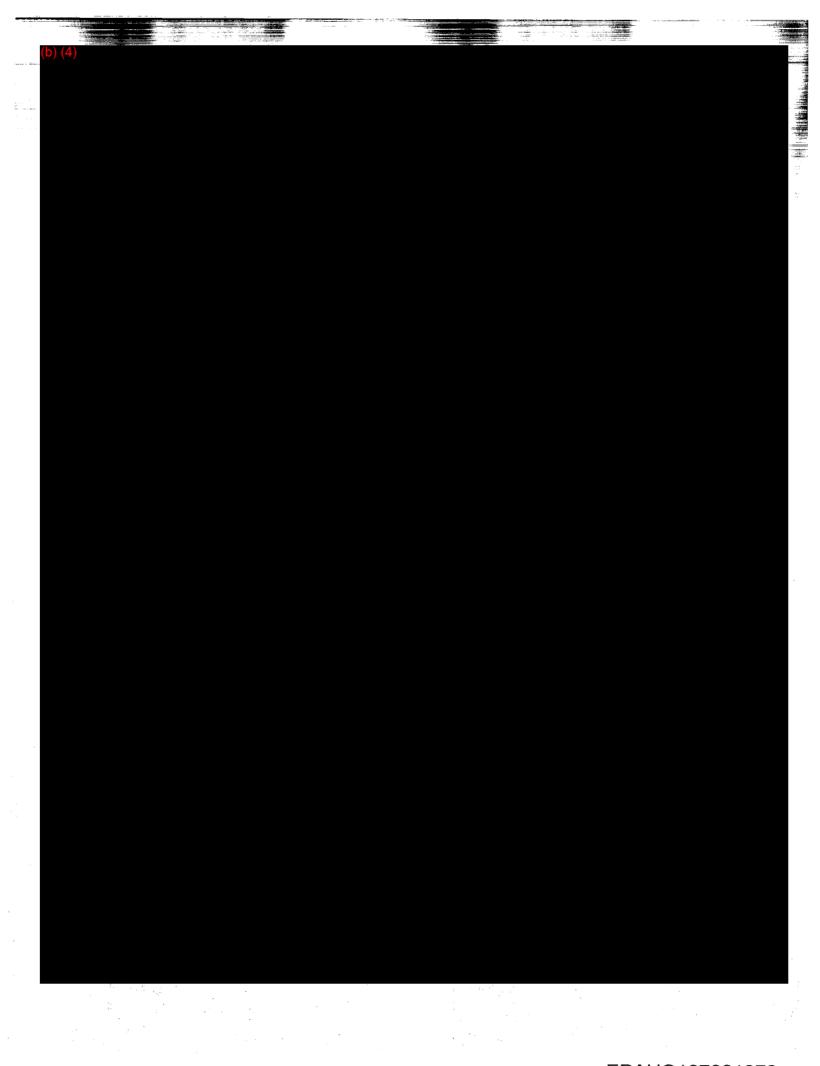
Sample ID# 234	Date 13 / 05 / 6 )
Please Complete This Section	
Generator / Customer Name : H 4 9 9	5 Frel (AFton
Name or Type of Waste :	
Process Generating Waste :	Blacker
Number of Samples : Submitted	Ву:
Analysis To Be Completed :	
Turnaround Time :	
Other:	
( Lab	Jse Only)
Sample Results : SG 0.92	Ash 1°/
Suggested Method of Treatment :	130°F
Suggested Price Range :	
Sample Results Reported to	
Test Completed By: <u>GG</u> Date: <u>LO / O'</u>	1_06 Time:

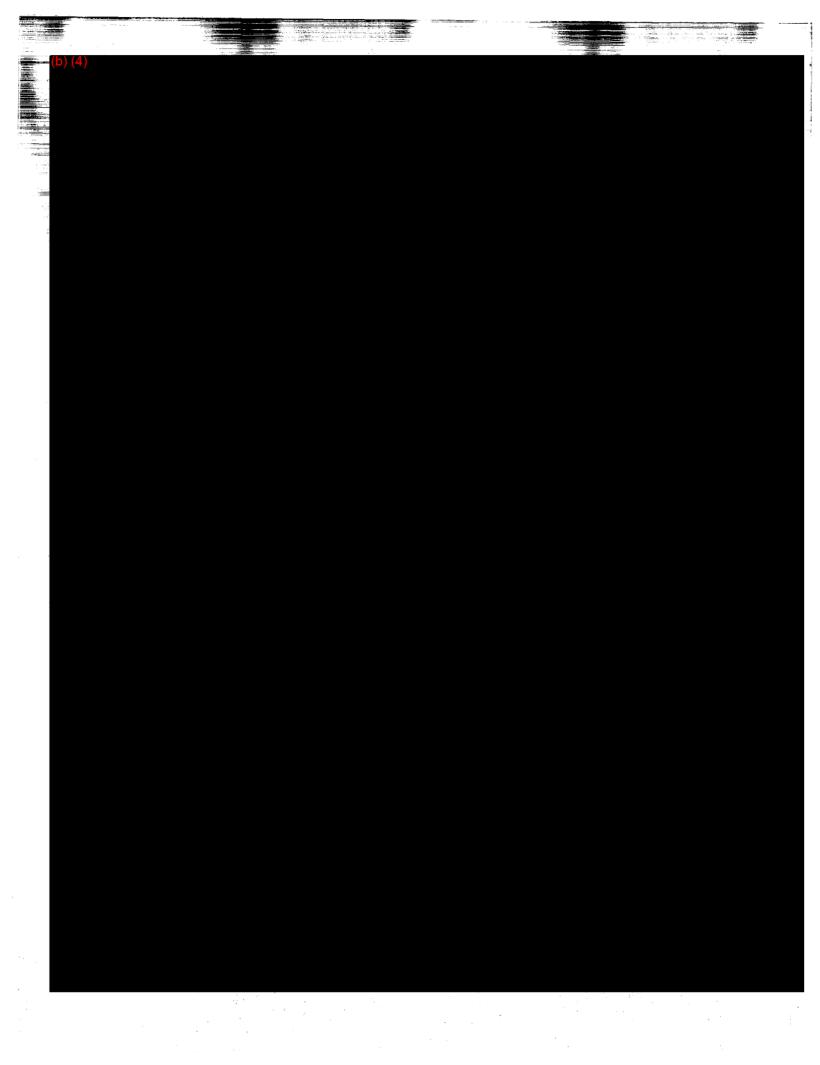


## Material Safety Data Sheet









1904 Griggs Road Houston TX 77021 Fel. (713) 676-1460 Fax. (713) 676-1460



## **Material / Product Approval Letter**

Date 10/22/2007

Dear Dewaine Kay

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2478

**Producer:** Ethyl Corporation

Address: 1000 N. South Street

Pasadena, TX 77501

#### Material / Product Information

Name of Material / Product Demulsifier (Tolad 0326) Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Off spec unused product

Color: light yellow

Odor: aromatic naphtha

pH: na

**Physical State:** 

**Incompatibilities:** oxidizers

Safety Related Data/Special Handling:

Level C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

1:2

- <del></del>			- ***			
SECTION 1: General			4			
Company:	Ethyl Corportation					
Address:	1000 N. South Street (1	P.O. Box 472)				
City, State, Zip:	Pasadena, TX 77501					
Contact:	Dewaine Kay		Title;	Sr. Envr. Spec	ialist	
Phone No:	713-740-8317		Fax No:	713-740-8310		
24/hr Phone:	CES-713-676-1460		•			
U.S. EPA I.D. No:	TXD008096158			1 1		
State I.D.	30465		SIC Code:	NA		
					<del></del>	
SECTION 2. Dilling	Information – Sam	a aa A hawa				
	Ethyl Corporation	e as Auuve				
- · · —	P.O. Box 472					
	Pasadena, TX 77501		<del></del>			
	Dewaine Kay	Title:	Sr. Envr. Spec	ialiat		
		<del></del>				
Phone No:	713-740-8371	Fax No:	713-740-8310			
SECTION 3: Gener	al Description of the W	1ste - Product				
	nulsifier (Tolad 0326) of Process Generating	Waste: Off-Spec un-use	1 product			
Physical State:	⊠ Liquid □	Sludge	l Powder			
I nysical State.						
	Solid _	Filter Cake	] Combination	ı		
Color: light yellow	Odo	r: aromatic naphtha				
Specific Gravity (wa	ter=1): <u>.9092</u>	Density: 8 lbs/gal				
Layers:	Single-phase	☐ Multi-phase				
Container Type:	Drum [	] Tote □	Truck	[] Oti	ier (explain)	
Container Size:	<del>_</del>	, 10tc <u> </u>	TIGER		er (expans)	
Container Size:	<u>55</u>					
•						
Frequency:	Weekly	Monthly [	Quarterly	⊠ Yes	ırly	
Number of Units (co		Other:				
	•			. *		
Texas State Waste C	ode No: NA-PT	oduct for reuse				
Proper U.S. DOT Sh	ipping Name:	Flammable liquids, n.o	o.s., 3, UN 1993	PG-III (Marin	e Poliutant)	
Class: 3	UN/NA:	UN 1993	PG: III		RQ; NA	
				<u></u>		
en e						
Flash Point	pH Re	active Sulfides	Reactive Cy	anides	Solids	
128 F	1 - 1	g/I	Omg/I		0%	
Oil&Grease	TOC		Copper	Nickel		
>1500mg/l	>1500mg/l	1	<u>O</u> mg/I	Omg/l		

#### SECTION 4: Physical and Chemical Data

COMPONDING STABILE		<u> </u>	centration	Units
The waste consists of the following materials		Ranges	are acceptable	or %
trimethylbenzene -		7-8		%
xylene (ortho)		2-3		%
cumene, naphthalene, ethylbenzene, potassium hydroxide, and	:	89-91	<u>।</u> <del>प्र</del>	%
sodium dodecylbenzene sulfonic acid, diethylbenzenes				
			***	
			:	

SECTION 5: Safety Related Data
--------------------------------

If the handling of this waste requires the use of special protective equipment, please explain.

<u>Level C</u>

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS.

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:		X
TCLP Volatiles:		$\bar{\mathbf{x}}$
TCLP Semi-Volati	les:	$\overline{\mathbf{X}}$
Reactivity:		$\overline{\mathbf{x}}$
Corrosivity:		$\overline{\mathbf{x}}$
Ignitability:	15.77	$\bar{\mathbf{x}}$

#### SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by his document.

Muldized Signature.		PAIS TO TO EDUT	
Printed Name/Title: Dewaine Kay St. ENUN Spece	: clist		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)		25-00/12	-/

Approval Number: 2478 Approved Rejected

Mix with light ends if only 2 drum

te- 10-16-2007

<u> </u>	CITOM IO: Waste Receipt Cassingshiph Onder 40 Car 457			é.
Is 1	his material a wastewater or wastewater sludge?YES	⊠ NO		
T.C.	Voe' complete this reaction		(control of the control of the contr	
11	Yes', complete this section.			
PI	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPI	RIATE CATEGORY, GO TO	THE NEXT I	PAGE.
Meta	ls Subcategory: Subpart A		*** * 1	-
П	Spent electroplating baths and/or sludges			
Ħ	Metal finishing rinse water and sludges			
П	Chromate wastes			
Ħ	Air pollution control blow down water and sludges			
靣	Spent anodizing solutions			
	Incineration wastewaters			
	Waste liquid mercury			
$\sqcap$	Cyanide-containing wastes greater than 136 mg/l			
	Waste acids and bases with or without metals			
	Cleaning, rinsing, and surface preparation solutions from electr	oplating or phosphating oper	ations	
	Vibratory deburring wastewater			
	Alkaline and acid solutions used to clean metal parts or equipm	ent		
Oils .	Subcategory: Subpart B			
	Troot alla			
님	Used oils			
H	Oil-water emulsions or mixtures			
님	Lubricants Coolants			
片	Contaminated groundwater clean-up from petroleum sources			
H	Used petroleum products			
H	Oil spill clean-up			
H	Bilge water			
H	Rinse/wash waters from petroleum sources			•
H	Interceptor wastes			
H	Off-specification fuels			
H	Underground storage remediation waste			
片	Tank clean-out from petroleum or oily sources			
Ħ	Non-contact used glycols			
Ħ	Aqueous and oil mixtures from parts cleaning operations			
Ħ	Wastewater from oil bearing paint washes			
L1				
Orga	mics Subcategory: Subpart C	•		
				o av Village V
П	Landfill leachate			
	Contaminated groundwater clean-up from non-petroleum source	es		
	Solvent-bearing wastes			
	Off-specification organic product			· · · · ·
	Still bottoms			
	Byproduct waste glycol			
	Wastewater from paint washes			<b>:</b>
	Wastewater from adhesives and/or epoxies formulation			
	Wastewater from organic chemical product operations			
	Tank clean-out from organic, non-petroleum sources			

Cadmium: 0.2 mg/L						
Chromium: 8.9 mg/L	2	= <u>:</u> :	<u>∓</u>			
Copper: 4.9 mg/L			150 150 130			
Nickel: 37.5 mg/L			- 2.5			
f the waste contains oil and grease l	ess than 100 mg/	L, and does	not have co	oncentrations o	f c <b>admium, ch</b> roi	niu

#### **SECTION 11: Additional Instructions**

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



## MATERIAL SAFETY DATA SHEET

**Baker** Petrolite

Baker Petrolite

SECTION 1 - CHEMICAL PRODUCT AND COMPA	ANY IDENTIFICATION		· · · · · · · · · · · · · · · · · · ·
PRODUCT NAME: TOLAD © 0326 Demulsifier	<u> </u>		5-
MANUFACTURER/SUPPLIER	EMERGENCY TELEPHONI	E NUMBERS (24 HOUR):	7.
Baker Petrolite 12645 W. Airport Blvd. Sugar Land, TX 77478	Chemtrec:	800-424-9300	<u>.</u>
CUSTOMER CARE: 1-800-872-1916 For information call 281-276-5400			
Preparer: Stacie Eakin	Date of Last Revision:	05/26/99	. 2.
Title: Reg Info Specialist	Supercedes MSDS Dated:	01/02/97	

SECTIO	N 2 - COMPOSITIO	ON/INFORMATION O	N INGREDIENTS				
ITEM			CAS#	WT/	WT %		
01	Light aromatic r	naphtha			64742-95-6		30-60
ПЕМ	TLV-TWA ACC	TLV-STEL	PEL-TWA OSI	HA PEL-STE		OMPANY LV-TWA	SKIN
01	N.E.	N.E.	N.E.	N.E.	N	.E.	N
LEGEND	N.A.: Not A N.E.: Not E N.D.: Not E	stablished	Ý	C): Ceiling Limit : Skin absorption is : Skin absorption is	significant to overa not significant	ll exposure	

SECTION 3 - HAZARDS IDENTIFICATION		terminal control of the second control of th
**********		
********	EMERGENCY OVERVIEW	********
******************	*************	************

APPEARANCE: Amber liquid.

ODOR: Aromatic odor.

SIGNIFICANT HAZARDS:

FLAMMABLE liquid and vapor. Skin and eye irritant. May cause irritation to the respiratory tract. Contains a material which can be absorbed through the skin. Contains a material which can cause liver and kidney damage. Contains a material which can cause nervous system effects. Contains a material which may cause embryo/fetotoxicity based on animal data. Contains a material which may cause effects to the blood and/or bone marrow. Contains a material which may cause cardiac effects. Contains a material which may cause cancer based on animal data.

#### POTENTIAL HEALTH EFFECTS

EYE CONTACT:

Direct eye contact may cause mild to severe irritation and may produce moderate, but reversible eye injury.

SKIN CONTACT:
Direct skin contact may cause irritation. Prolonged and repeated skin contact may cause irritation and possibly dermatitis. A component(s) of this product may be slightly absorbed through the skin upon direct contact, possibly resulting in toxic effects similar to those of inhalation.

INHALATION:

Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Prolonged, repeated,

PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE LAST PAGE CONTINUED ON NEXT PAGE

TOLAD • 0326 Demulsifier Date of Last Revision Product Name: 05/26/99

#### SECTION 3 - HAZARDS IDENTIFICATION -continued

or high exposures may cause chemical pneumonitis and, in extreme cases, pulmonary edema. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness. Acute overexposure to a component(s) in this product has been shown to cause cardiac injury. Ingestion of ethyl alcohol in conjunction with exposure to a component(s) of this product may increase the adverse health effects expected from ethyl alcohol

INGESTION:

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2

Harmful if swallowed. May cause severe gastrointestinal disturbance with headache, nausea, vomiting and diarrhea. Aspiration into lungs may cause pulmonary edema and chemical pneumonitis. May be readily absorbed through the gastrointestinal tract. Effects of ingestion are similar to those of inhalation.

CHRONIC EFFECTS:

CHRONIC EFFECTS:

A component(s) of this product may cause kidney and liver damage upon prolonged and repeated overexposures. A component(s) of this product has been shown to cause adverse liver and kidney effects in laboratory animals. A component(s) of this product has been shown to cause adverse blood, bone marrow and cardiac effects in laboratory animals. Animal studies have shown that a component(s) of this product is associated with adverse effects or embryo/fetotoxicity at maternally toxic dosage levels. A component(s) of this product has been associated with hemolitic anemia and fetal toxicity at high doses.

CARCINOGENICITY:

CARCINOGENICITY:

From skin-painting studies of petroleum distillates of similar composition and distillate range, it has been shown that these types of materials often possess weak carcinogenic activity in laboratory animals. In these tests, the material is painted on the shaved backs of mice twice a week for their lifetime. The material is not washed off between applications. Therefore, there may be a potential risk of skin cancer from prolonged or repeated skin contact in the absence of good personal hygiene.

#### SECTION 4 - FIRST AID MEASURES

#### FIRST AID PROCEDURES

EYES:

If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

Wash skin thoroughly with soap and water. If rash or irritation develops, consult a physician. Launder clothing before reuse.

INHALATION:

If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

INGESTION:

Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Have the victim drink 8 to 10 ounces (240 - 300 ml) of water to dilute the material in the stomach. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration into the lungs. Consult a physician immediately.

#### NOTE TO PHYSICIAN

NOTE TO PHYSICIAN:

Administer activated carbon if indicated.

#### SECTION 5 - FIRE-FIGHTING MEASURES

53 C (128 F) SFCC ASTM D-3828 Flashpoint and Method:

Autoignition Temperature: N.D.

Flammable Limits:

LEL: N.D.

UEL: N.D.

HAZARDOUS COMBUSTION PRODUCTS:

Oxides of sulfur. Carbon monoxide. Carbon dioxide

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash

EXTINGUISHING MEDIA: Alcohol Foam, CO2, Dry Chemical, Foam, Water Fog

CONTINUED ON NEXT PAGE

TOLAD • 0326 Demulsifier roduct Name 05/26/99

#### SECTION 5 - FIRE-FIGHTING MEASURES - continued

FIRE-FIGHTING INTRUCTIONS

Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. Flammable. Cool fire-exposed containers using water spray.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

LEAKS OR SPILLS:

Use personal protective equipment as necessary. Absorb with suitable chemical absorbent. Dispose of material in accordance with all federal, state and local regulations. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

OTHER:

No known information.

Refer to Section 15 for regulatory reporting requirements in the event of an accidental release.

#### SECTION 7 - HANDLING AND STORAGE

HANDLING AND STORAGE:

Flammable liquid. Avoid heat, sparks and open flames. Avoid breathing vapor and contact with eyes, skin and clothing. Keep container closed when not in use. Chemical residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning. Use in well ventilated area.

#### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** 

Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Chemical resistant gloves and chemical goggles should be used to prevent skin and eye contact.

RESPIRATORY PROTECTION:

When concentrations exceed the exposure limits specified, use of a NIOSH-approved organic vapor cartridge respirator is recommended. Where the protection factor may be exceeded, use of a full facepiece, supplied air or Self Contained Breathing Apparatus (SCBA) may be necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPE	RTIES
Solubility in Water: Insoluble.	pH @ 5.0% 75/25 Isopropanol/Water: N.D
Density @ 60 F (16 C): 7.70 lb/USgal	Evaporation Rate: Is slower than Ether
Boiling Point ASTM D-86: 320 F (160 C)	Vapor Density: Is heavier than air
Vapor Pressure: 0.2795 PSIA @ 68 F ( 22 C)	Physical State: Liquid

#### SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Keep away from strong oxidizing agents, heat and open flames.

HAZARDOUS DECOMPOSITION PRODUCTS:

No known information.

CONTINUED ON NEXT PAGE

Product Name:	TOLAD 95326 D	emulsitier		Date of	Last Revision:	05/26/99		1 (46 TREADER) - 1 (47 TREADER) - 1 (47 TREADER)
		A STATE OF THE STA						Section 1
SECTION 10 -	STABILITYANI	REACTIVITY	/ - continued	::	*** * **. *			
		72.7 7.7 7.7						· · · · · · · · · · · · · · · · · · ·
			and a					
SECTION 11 -	TOXICOLOGICA	L INFORMAT	TON				1.0	ST.,. 12
	-	PRODU	CT TOXICOLOGI	CAL I	NFORMATION			:
No known i OTHER: No known inform								
		COMPON	ENT TOXICOLOG	ical i	INFORMATION:			
Component Light aromatic na		LD : N.D	so Dermal		LD so Oral 2900 mg/kg-R		LC so Inhalation N.D.	<u> </u>
LEGEND: R RI M	= Mouse	SKIN A	ND EYE SCORE:	1 2 3	= No Effect / Sli = Moderate Irrita = Strong Irritant	ant	Extreme Irritant/	Correcive

#### SECTION 12 - ECOLOGICAL INFORMATION

An ECOTOX \*Report is available for this product. Please contact Baker Petrolite Corporation for a copy of this report.

OTHER: No known information.

#### SECTION 13 - DISPOSAL INFORMATION

DISPOSAL INFORMATION:
Responsibility for proper waste disposal rests with the generator of the waste. Dispose of any waste material in accordance with applicable regulations. Note that these regulations may also apply to empty containers, liners, and rinsate. Processing, use, dilution, or contamination or this product may cause its physical and chemical properties to change. Triple-rinse drum prior to offering for recycle, reconditioning or disposal. Dispose of rinsate in an environmentally acceptable manner consistant with applicable waste management regulations.

U.S. DEPARTMENT OF	TRANSPORTATION (D.O.T.) INFOR	MATION
Proper Shipping Name: Flammable liquid, n.o.s. (contains	light aromatic naphtha, and diethyl- ben	zenes) 3 UN1993 III
D.O.T. Emergency Response Guide: 128	Marine Poliutant:	(contains Diethylbenzenes)

CONTINUED ON NEXT PAGE

Page 4

TOLAD • 0326 Demulsifier Date of Last Revision: Product Name 05/26/99

SECTION 14 - TRANSPORTA	ATION INFORMATION COST	unce
	- mag-	GANIZATION (I.M.O.) INFORMATION
Proper Shipping Name: Flammabl	e liquid, n.o.s. (contains light aron	natic naphtha, and diethyl- benzenes) 3.3 UN1993 III
IMDG Code Page: 3345	· <u>**</u>	EMS Number: 3-07
MFAG Table Number 1: 311		MFAG Table Number 2: N.A.
Marine Pollutant:	(contains Diethylbenzenes)	

#### SECTION 15 - REGULATORY INFORMATION

CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES:

CERCLA HAZARIAUS SUBSTANCES AND REPORTABLE QUANTILES:
The Baker Petrolite product contains the following components that are subject to the release reporting requirements of the Comprehensive Environmental Response. Compensation, and Liability Act. Also listed is the Reportable Quantity (RQ) in pounds for each such component, and the amount of product, in gallons, that must be released or spilled in order to exceed the RQ.

Chemical Name	CAS Number	RO #	RO. GAL.
Naphthalene	91-20-3	100	5.930
Xylene (ortho)	95-47-6	1,000	5,266
Cumene	98-82-8	5,000	65,857
Ethylbenzene	100-41-4	1,000	>99,999
Potassium Hydroxide	1310-58-3	1,000	>99,999
Xylene	1330-20-7	100	61,843
Sodium dodecył benzene sulfonic acid	25155-30-0	1,000	41,360

SARA TITLE III:

This Baker Petrolite product contains the following components that are identified as extremely hazardous substances by the Superfund Amendments and Reauthorization Act. Also listed is the Reportable Quantity (RQ) in pounds for each such component, and the amount of product, in gallons, that must be released or spilled in order to exceed the RQ; and the Threshold Planning Quantity (TPQ) in pounds for each such component, and the amount of product in gallons that contains the TPQ.

CAS Number RO (lbs.) RO (gal.) TPO (lbs.) TPO (gal.) Chemical Name C. No SARA Extremely Hazardous Substances are present in this material.

Baker Petrolite has determined that under Sections 311/312 of SARA Title III, the following hazard categories apply to this product:

Hazard: Immediate Health, Chronic Health, Fire

**SARA SECTION 313:** 

This Baker Petrolite product contains the following components that are subject to the annual toxic release inventory reporting requirements of Section 313 of SARA Title III. Also listed is the concentration of the component, in weight percent, in the product, A component is not listed if its concentration is less than the de minimis level.

Chemical Name	CAS Number	Weight Percent
Xylene (ortho)	95-47-6	2.4 %
Trimethylbenzene (C-9 Aromatic/Sec.4)	95-63-6	7.7 %

TOXIC SUBSTANCES CONTROL ACT (TSCA):
This product or its components, if a mixture, are listed on the TSCA inventory.

This Baker Petrolite product contains the following components that are subject to the reporting requirements of TSCA Section 12(b) if exported from the United States:

Chemical Name	·	CAS Number
Trimethylbenzene (C-9 Aromatic/Sec.4)		95-63-6
Cumene		98-82-8

CONTINUED ON NEXT PAGE



## **Material / Product Approval Letter**

Date 10/22/2007

Dear **Control Room** 

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** 2479

**Producer:** Noltex

Address:

12220 Strang Road (Attn: Randy Boeding)

La Porte, TX 77571

#### Material / Product Information

Name of Material / Product Off spec material **Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Off spec out of date caustic

Color: white

Odor: none

**pH:** 13-14

**Physical State:** 

Incompatibilities: Acids and organic halogen compounds, reactive metals

Safety Related Data/Special Handling:

see msds

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

(713) 676-1460 Fax: (713) 676-1676 L http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 = ISWR No: 30900



SECTION 1: Mater	rial Producer Inform	ation			
Company:	Noltex				
Address:	12220 Strang Rd				
City, State, Zip:	Lu Porte, TX 7757	1			
Contact:	Debbie Dalton		Title:	HS&E Coordinator	
Phone No:	(281) 842-5031	<u> </u>	Fax No:	(281) 842-5095	and the Contract of the Contra
24/hr Phone:	(281) 842-5031				
U.S. EPA I.D. No:	TXR00001106			NA	
State I.D.	84348		SIC Code:	NA	
SECTION 2: Billing	Information – 🛛 5	ame as Above			
Company:					
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax N	o;		
SECTION & Course	al Description of the	Malerial / Developet			
	Product: Off Spec M				_
Detailed Description	of Process Cenerati	ng or Producing the A	Asterial / Product:	Oil-spec/Out-of-date	Caustic
					•
Discrimination Asset	T thomas	C Clark	<u> </u>		
Physical State:	Liquid	Sludge	☐ Powder		
w.	Solid .	Filter Cake	Combination		
· <u>.</u>		_	The second secon		
Color: White	C	dor: <u>none</u>	1.4.		
•		·			
Specific Gravity (wa	nter=1): <u>2</u>	Density: 18 lbs/gal			
	₩ 54mala mbasa	□ 36let ~3 ~			
Layers:	⊠ Single-phase	☐ Multi-pha	<b>IC</b>		
	57	П			
Container Type:	⊠ Drum	☐ Tote	☐ Truck	Other (c	xplain)
Container Size;	<u>55-qal</u>	<u></u>	difference and a second		
Frequency:	☐ Weekly	Monthly	Quarterly	Yearly	
Number of Units (co	_	Other:		23 11512	
HERDEL OF CHIES (CO		Other,			
			<u>.</u> :.		
Proper U.S. DOT Sh	ipping Name:	Sodium Hydroxi	de, Solid		
Class: 8	UN/NA	L: UN1823	PG: II		Q: 30016s
C(#55. 0	01/1/1/	1. O11102J	70, 11		1000-
				_	•
Flash Point	pH	N/A	N/A	Solie	i
>150	13-14	4 17 - 10	1 ""		<u>00</u> %
Oil&Crease	TOC	Zinc	Copper	Nickel	
0 mg/l	<u>0</u> mg/1	0 mg/1	0 mg/l	O mg/l	
	1 - 7				

#### SECTION 4: Physical and Chemical Data

	e material /	COMPONENTS TABLE product consists of the foll	owing materials		tration ==== acceptable ===	Units or %
Sodium Hyd	froxide		•	99-100		- %
Water	in the second	A CONTRACTOR OF THE CONTRACTOR		0-1	725. 67	%
= :	7	American Company (Company Company Comp		1	₩.	
		-				
		_ <u></u>		T .	12.	

#### SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.  $\underline{MSDS}$ 

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

Acids & organic halogen compounds, reactive metals

#### SECTION 8: Material Producer's Cortification

The information contained herein is based on 🖂 generator knowledge an	d/or analytical data. I hereby certify that the above and
attached description is complete and accurate to the best of my knowle	edge and ability to determine that no deliberate or willful
omissions of composition properties exist and that all known or suspecte	ed hazards have been disclosed. I certify that the materials
tested are representative of all materials described by this document.	
	m / /

Authorized Signature	an C	ocal		Date: 10/16/07
		Boeding / SR	VP	

Technical Manager: Approved Rejected	Process Facility Information: Pense for causing (25)
Approval Number: 2479	Product



#### Material Safety Data Sheet

From:

Vinquiry, Inc. 7795 Bell Road Windsor, CA 95492



24 hour Emergency Telephone: Chemtrec: 1-800-424-9300

Outside U.S. and Canada Chemtrec: 202-483-7616

**NOTE:** CHEMTREC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All Non-emergency questions should be directed to Customer Service (1-707-838-6312) for assistance.

## **Sodium Hydroxide Pellets**

### SODIUM HYDROXIDE PELLETS

MSDS Number: SH237 --- Effective Date: 01/01/04

#### 1. Product Identification

Synonyms: Caustic soda; lye; sodium hydroxide solid; sodium hydrate

CAS No.: 1310-73-2 Molecular Weight: 40.00 Chemical Formula: NaOH

Vinquiry Product Codes: 10-237-0000, 10-237-0100, 10-237-0500

## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Sodium Hydroxide	1310-73-2	99 - 100%	Yes

## 3. Hazards Identification

**Emergency Overview** 

POISON! DANGER! CORROSIVE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES BURNS TO ANY AREA OF CONTACT. REACTS WITH WATER, ACIDS AND OTHER MATERIALS.

#### Vinquiry Safety Data Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Poison)
Flammability Rating: 0 - None
Reactivity Rating: 2 - Moderate

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: White Stripe (Store Separately)

#### **Potential Health Effects**

#### Inhalation:

Severe irritant. Effects from inhalation of dust or mist vary from mild irritation to serious damage of the upper respiratory tract, depending on severity of exposure. Symptoms may include sneezing, sore throat or runny nose. Severe pneumonitis may occur.

#### **Ingestion:**

Corrosive! Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. Symptoms may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appears days after exposure.

#### Skin Contact:

Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

#### **Eve Contact:**

Corrosive! Causes irritation of eyes, and with greater exposures it can cause burns that may result in permanent impairment of vision, even blindness.

#### **Chronic Exposure:**

Prolonged contact with dilute solutions or dust has a destructive effect upon tissue.

#### **Aggravation of Pre-existing Conditions:**

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

#### 4. First Aid Measures

#### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### **Ingestion:**

DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### **Skin Contact:**

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before reuse.

#### Eve Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

#### Note to Physician:

Perform endoscopy in all cases of suspected sodium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

## 5. Fire Fighting Measures

#### Fire:

Not considered to be a fire hazard. Hot or molten material can react violently with water. Can react with certain metals, such as aluminum, to generate flammable hydrogen gas.

#### **Explosion:**

Not considered to be an explosion hazard.

#### Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire. Adding water to caustic solution generates large amounts of heat.

#### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Do not flush caustic residues to the sewer. Residues from spills can be diluted with water, neutralized with dilute acid such as acetic, hydrochloric or sulfuric. Absorb neutralized caustic residue on clay, vermiculite or other inert substance and package in a suitable container for disposal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

## 7. Handling and Storage

Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Always add the caustic to water while stirring; never the reverse. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Do not store with aluminum or magnesium. Do not mix with acids or organic materials.

## 8. Exposure Controls/Personal Protection

#### **Airborne Exposure Limits:**

- OSHA Permissible Exposure Limit (PEL):
- 2 mg/m3 Ceiling
- ACGIH Threshold Limit Value (TLV):
- 2 mg/m3 Ceiling

#### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation*, *A Manual of Recommended Practices*, most recent edition, for details.

#### Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

#### **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

#### **Eye Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

## Appearance:

White, deliquescent pellets or flakes.

Odor:

Odorless.

Solubility:

111 g/100 g of water.

**Specific Gravity:** 

2.13

pH:

13 - 14 (0.5% soln.)

% Volatiles by volume @ 21C (70F):

0

**Boiling Point:** 

1390C (2534F)

**Melting Point:** 

318C (604F)

Mapor Density (Air=fr:

Mapor Pressure (mm Hg):

Negligible.

Evaporation Rate (BuAc=1):

No information found.

## 10. Stability and Reactivity

#### Stability:

Stable under ordinary conditions of use and storage. Very hygroscopic. Can slowly pick up moisture from air and react with carbon dioxide from air to form sodium carbonate.

#### **Hazardous Decomposition Products:**

Sodium oxide. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

#### **Hazardous Polymerization:**

Will not occur.

#### **Incompatibilities:**

Sodium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may causes violent reactions. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts. Contact with metals such as aluminum, magnesium, tin, and zinc cause formation of flammable hydrogen gas. Sodium hydroxide, even in fairly dilute solution, reacts readily with various sugars to produce carbon monoxide. Precautions should be taken including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel before vessel entry.

#### **Conditions to Avoid:**

Moisture, dusting and incompatibles.

## 11. Toxicological Information

Irritation	data: skin,	rabbit: 500	mg/24H sev	ere; eye rabbit:	50 ug/24H	severe; investigat	ed as a
mutagen.							

\Cancer Lists\			
	NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
Sodium Hydroxide (1310-73-2)	No	No	None

## 12. Ecological Information

**Environmental Fate:** 

No information found.

**Environmental Toxicity:** 

No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: SODIUM HYDROXIDE, SOLID

Hazard Class: 8 UN/NA: UN1823 Packing Group: II

Information reported for product/size: 300LB

International (Water, I.M.O.)

Proper Shipping Name: SODIUM HYDROXIDE, SOLID

Hazard Class: 8 UN/NA: UN1823 Packing Group: II

Information reported for product/size: 300LB

## 15. Regulatory Information

Ingredient		TSCA	EC	Japan	Austral	ia
Sodium Hydroxide (1310-73-2)		Yes	Yes	Yes	Yes	
\Chemical Inventory Status - P	art 2\					
	,			anada		
Ingredient		Korea	DSL	NDSL	Phil.	
Sodium Hydroxide (1310-73-2)		Yes	Yes	No	Yes	
\Federal, State & Internationa						
\Federal, State & Internationa Ingredient	-SARA	302-	,	SAR	 A 313 mical Ca	<b>-</b> -
	-SARA	302- TPQ	Lis	st Cher	A 313	<b>-</b> -
Ingredient	-SARA RQ  No	302- TPQ  No	Lis  No	st Cher	A 313 mical Ca No	<b>-</b> -
Ingredient Sodium Hydroxide (1310-73-2)\Federal, State & Internationa	-SARA RQ No No	TPQ  No .ons -	Lis No No Part 2	SARA	A 313 mical Ca No SCA-	<b>-</b> -
Ingredient Sodium Hydroxide (1310-73-2)	-SARA RQ No No	302- TPQ  No	Lis No No Part 2	SARA	A 313 nical Ca No	<b>-</b> -

Chemical Weapons Convention: No TSCA 12(b): NO CDTA: No SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: Yes (Pure / Solid)

Australian Hazchem Code: 2R

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

#### 16. Other Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1

Label Hazard Warning:

POISON! DANGER! CORROSIVE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES BURNS TO ANY AREA OF CONTACT. REACTS WITH WATER, ACIDS AND OTHER MATERIALS.

#### **Label Precautions:**

Do not get in eyes, on skin, or on clothing.

Do not breathe dust.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

#### Label First Aid:

If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. In all cases get medical attention immediately.

#### **Product Use:**

Laboratory Reagent.

#### Disclaimer

Vinquiry Inc. provides this information in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to laboratory use of this material by a properly trained person. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Vinquiry Inc. will not be responsible for damages resulting from use or reliance upon this information.

Ethyl Compaction 2480 2480



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 10/22/2007

Dear Dewaine Kay

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2480

Generator: Ethyl Corporation

Address: 1000 N. South Street

Pasadena, TX 77501

#### Waste Information

Name of Waste: Performance additive (H9300)

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Off spec unused product

Color: light yellow

Odor: oil like

pH: na

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. 4904 Griggs Road Phone: (713) 676-1460

Houston, TX-77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Gene	rator Information			75
Company:	Ethyl Corportation			
Address;		et (P.O. Box 472)		
City, State, Zip:	Pasadena, TX 775	01		<u> </u>
Contact:	Dewaine Kay	<u></u>	Title:	Sr. Envr. Specialist
Phone No:	713-740-8317		Fax No:	713-740-8310
24/hr Phone:	CES-713-676-146	)		
U.S. EPA I.D. No:	TXD008096158			Λ 1.
State 1.D.	30465		SIC Code:	
SECTION 2: Billin	g Information -	Same as Above		
Company:	Ethyl Corporation			
Address:	P.O. Box 472			
City, State, Zip:	Pasadena, TX 77501			
Contact:	Dewaine Kay	Title:	Sr. Envr. Spec	eialist eine eine eine eine eine eine eine ein
Phone No:	713-740-8371	Fax No		
•				
SECTION 3: Gene	ral Description of the	Waste		
Name of Waste: Pe	rformance Additive (I	19300)		
		ing Waste: Off-Spec ur	-used product	
•	_	-	_	
Physical State:	⊠ Liquid	Sludge	Powder	
	☐ Solid	☐ Filter Cake	Combination	n · · · · ·
Color: light yellow	(	Odor: <u>Oil like</u>		
Specific Gravity (w	ater=1): <u>.96-1.00</u>	Density: 8 lbs/gal		A STATE OF THE STA
_				and the second s
Layers:	⊠ Single-phase	Multi-phas	e	
		_		
Container Type:	⊠ Drum	☐ Tote	Truck	Other (explain)
Container Size:	<u>55</u>			
•				
Francis	13/ookby	Monthly.	Omonto ala	
Frequency:	☐ Weekly	[ ] Monthly		☐ Yearly
Number of Units (c		Other:	• •	
Texas State Waste	Code No: NA	A-Recyclable Material		
Proper U.S. DOT S	hipping Name:	Non-RCRA; Non	-DOT Regulated Ma	terial
Class: NA	UN/N	A: NA	PG: NA	RQ: NA
:				
Flash Point	pH	Reactive Sulfides	Reactive Cy	/anides Solids
>200	NA NA	Omg/I	0mg/l	Solids 0%
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	<u>O</u> mg/l	Omg/I	Omg/I
				1 <del></del>

#### SECTION 4: Physical and Chemical Data

	COMPONIA	MSHMBLE		Cencentration	
And the second s	The waste consists of t	he f <b>ollowing mat</b> erials	Jacobson Co.	Ranges are acceptable	-or % =
Mineral Oil	A CONTRACTOR OF THE PROPERTY O			30-60	2/0
Magnesium le	ong-chain alkaryl sulfon	ate == = =	A CONTROL OF THE CONT	0-20	<b>2%</b>
Zinc dialkyl d	ithiophosphate	The second secon	SIA.	5-20	%
Ethylenedian	nine			0- 0.5	%
Organomolyb	odenum amide		=	0- 5	%
Diphenylamin	ne e	· · · · · · · · · · · · · · · · · · ·		02	%

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level C

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS, CES Lab Evaluation

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	$\overline{\mathbf{x}}$
TCLP Semi-Volatiles:	<u>x</u>
Reactivity:	<u>x</u>
Corrosivity:	X
Ignitability:	$\overline{\mathbf{x}}$

#### SECTION 9: Generator's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Alle Marie Fair	Date: 10-16-2007
Printed Name/Title: Dewaine Kay/ Sr. Envr. Specialist	

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Blackoi
Compliance Officer: John My	Additional Information: 35 / Dries - (Black)
Date: 10-23-07 Approved Rejected	Traus 700/40
Approval Number: 2480	REC

## SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater of wastewater sludge? YES If Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes

#### Organics Subcategory: Subpart C

	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations
П	Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

Oils Subcategory

Organics Subcategory

#### SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



## Sample Evaluation Form

Sample ID# (136-135-137) Date (3/5/N)
Please Complete This Section
Generator / Customer Name: H 9300
Name or Type of Waste:
Process Generating Waste :
Number of Samples : Submitted By :
Analysis To Be Completed :
Turnaround Time :
Other :
( Lab Use Only )
Sample Results: SG 1.00 ASH 8%
Suggested Method of Treatment: High Viscosily
Suggested Price Range :
Sample Results Reported to
Test Completed By: A Date: 10 / 69 / D Time:



# Material Safety Data Sheet

MSDS No.

19300

HiTEC is a trademark owned by Afton Chemical Corporation or one of its subsidiaries.

### 1. Product and Company Identification

**HiTEC 9300 Performance Additive** 

**Product Use** 

Petrochemical industry: Lubricating Oil Additive.

Validation Date

26 July 2006

#### In Case of Emergency - Chemical

1-800-403-0044 (US & Canada) 1-804-648-7727 (International) 32-2-507-20-64 (Europe) 81-3-5210-4890 (Japan)

#### Manufacturer / Supplier

Afton Chemical Corporation 500 Spring St. Richmond, VA 23219 1-804-788-5800

In Japan: Afton Chemical Japan Corporation Sumitomo Fudousan Sanbancho Bldg. 5F 6-26 Sanbancho, Chiyoda-ku Tokyo 102-0075 Japan Emergency phone: 81-3-5210-4890 Afton Chemical Limited Euro-Tech Centre London Road, Bracknell, Berkshire RG12 2UW, England 44 1344-304141

In Australia: Afton Chemical Asia Pacific Company Level 9, 20 Berry Street North Sydney, NSW 2060 Australia Telephone number: 02-9923-1588

Business Hours: 9:00am - 5:00pm

## 2. Composition and Information on Ingredients

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information.

Substance/Preparation

: Preparation

Ingredient name	CAS No.	Conc. (% w/w)	EU Classification	<u>WHMIS</u> Regulated?
Mineral Oil	Mixture.	30 - 60	Not classified.	No.
Magnesium long-chain alkaryl sulfonate	71786-47-5	10 - 19.9	Not classified.	Yes.
Zinc dialkyl dithiophosphate	68649-42-3	10 - 19.9	Xi; R36/38	Yes.
Ethylenediamine	107-15-3	0.1 - 0.5	R10	Yes.
			Xn; R21/22	
			C; R34	
			R42/43	

## 3. Hazards Identification

#### Notice to Reader

Afton operates a world-wide system for hazard communication. Some hazards shown in Section 3 may apply to non-EU countries and may not result in classification and labeling in the EU. Please see Section 2 and 15 for country specific classification information, and Section 11 for additional details.

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classified as hazardous according to the criteria of NOHSC and not classified as dangerous goods according to the ADG Code.

Primary Hazards and Critical Effects

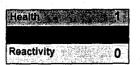
: WARNING!

CAUSES EYE AND SKIN IRRITATION.

**Environmental Hazards** 

: Not classified as dangerous for the environment according to EC criteria.

Hazardous Material Information System (U.S.A.)



#### First Aid Measures

Inhalation

emove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. medical attention if symptoms appear.

Ingestion

If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Skin Contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.

**Eye Contact** 

: In case of contact, immediately flūsh eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

### Fire-Fighting Measures

**Extinguishing Media** 

: In case of fire, use water spray (fog), foam, dry chemical, or CO2,

Fire-Fighting Procedures

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnoutgear.

Hazardous Decomposition

**Products** 

These products are carbon oxides (CO, CO<sub>2</sub>). Some metallic oxides.

Hydrogen sulfide.

Flash point

: Closed cup: 130°C (266°F). (Pensky-Martens. Minimum)

#### Accidental Release Measures

Personal Precautions

: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5)

Environmental Precautions and Clean-up Methods

If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion-proof means to transfer material to a sealable, appropriate container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

Note: See section 1 for emergency contact information and section 13 for waste disposal.

## Handling and Storage

Handling

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Keep container tightly closed. Keep container in a cool, well-ventilated area Storage

#### 8. Exposure Controls and Personal Protection

**Engineering Controls** 

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protective Equipment

Respiratory System

: Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).

Skin and Body

Where contact is likely, wear chemical resistant gloves, a chemical resistant suit, and boots. Additional body garments should be used based upon the task being performed.

Hands

Use chemical resistant, impervious gloves.

Eyes

Safety goggles are considered minimum protection. Goggles with a face shield may be necessary depending on quantity of material and conditions of use.

#### **Occupational Exposure Limits**

Ingredient Name

1) Mineral Oil

**OEL United States** ACGIH (United

**OEL Canada** TWA: 5 mg/m<sup>3</sup> OEL Europe EH40 (UK) (Europe **OEL Australia** NOHSC (Australia, 2003).

States). TWA: 5 mg/m<sup>3</sup> STEL: 10 mg/m<sup>3</sup> OSHA (United States).

TWA: 5 mg/m<sup>3</sup>

STEL: 10 mg/m3

2002). TWA: 5 mg/m<sup>3</sup> 8 hour/hours.

TWA: 5 mg/m<sup>3</sup> 8 hour/hours

## Physical and Chemical Properties

**Physical State and** Appearance

: Liquid.

Color

: Brown. Clear to slightly hazy liquid. (Dark.)

Density **Specific Gravity**  0.996 g/cm3 at 15°C 0.999 @ 15.6°C

FITEC 930	00 Performance Additive	In Case of E 507-20-64 (E		-800-403-0044 (	US/Canada) 1-804-64	8-7727 (Int'l) 32-2- F	Page: 4/5
TATA-DG Glass	R No - regulated.			The state of the s	Section 1.		
ADG Cla	ss Not - regulated.	The second secon	-			Company of the Compan	

#### Notice to Reader

The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

#### 15. Regulatory Information

.......

#### **EU Regulations**

Hazard Symbol(s)



Risk Phrases

: R36/38- Irritating to eyes and skin.

Safety Phrases

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28- After contact with skin, wash immediately with plenty of water...

Additional warning

phrases

: Contains (Ethylenediamine). May produce an allergic reaction.

**US Regulations** 

: Zinc dialkyl dithiophosphate SARA 313 toxic chemical

10 - 19.9

-

notification and release reporting

SARA 311/312 Hazardous Categorization : SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Immediate (acute) health hazard,

Delayed (chronic) health hazard

RQ (Reportable quantity)

: CERCLA: Hazardous substances.: No products were found.

: No products were found. State - California Prop. 65

Canadian Regulations

WHMIS (Classification)

: Not determined.

International Inventory Status

**United States** 

: All components on TSCA inventory

Canada

: All components on DSL

Europe Japan

: All components on EINECS

Australia

: All components on METI All components on NICNAS

Korea

All components on ECL

China

**Philippines** 

All components on IECSC : All components on PICCS

#### Other Information

#### PREPARATION INFORMATION

Validated by \_HS&E Department (Tel: +1 804 788 5800) on 7/26/2006.

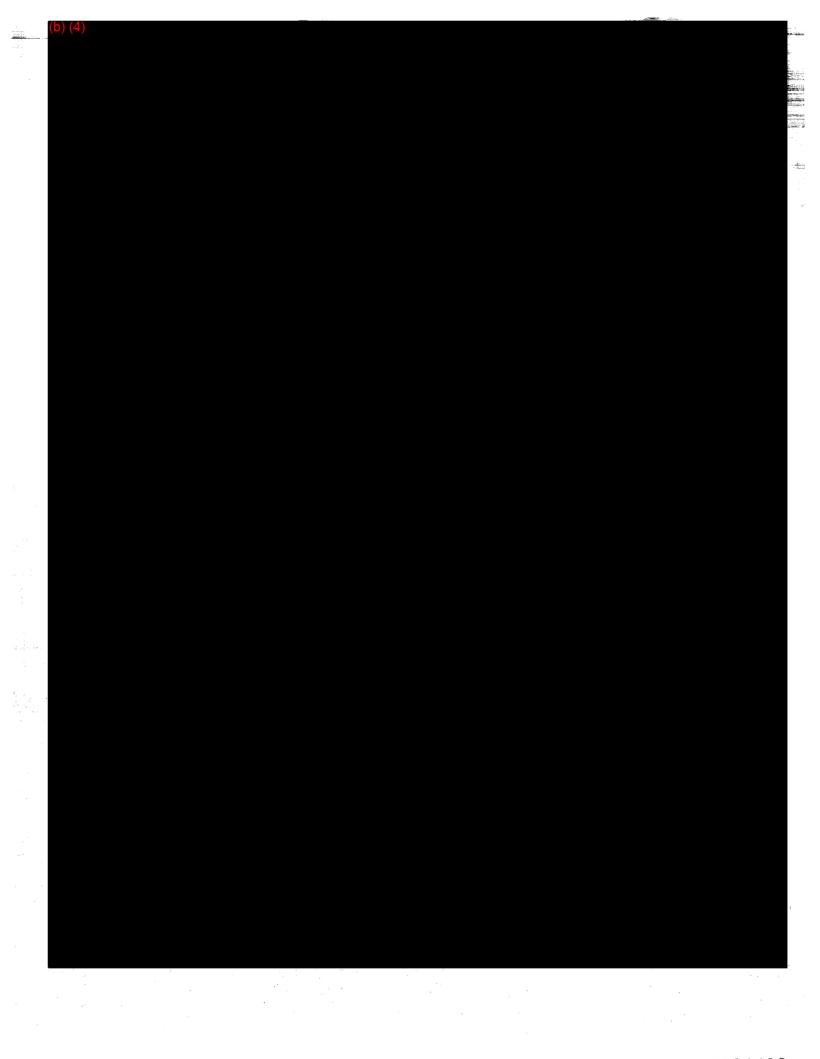
**Date of Printing** 

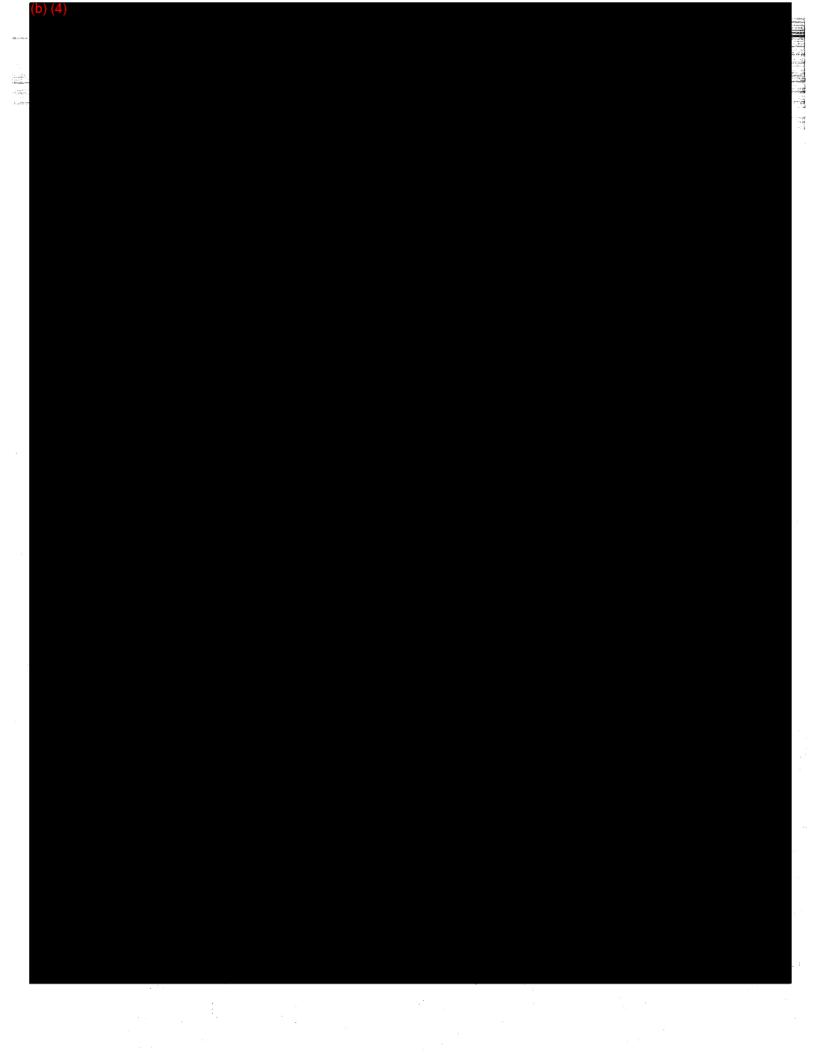
: 7/26/2006.

Indicates information that has changed from previously issued version.

Notice to Reader







\*\*\* END OF MSDS \*\*\*



#### **HiTEC 1136 Performance Additive**

Material
-Safety Data Sheet

MSDS No.

H1136

HiTEC is a trademark owned by Afton Chemical Corporation or one of its subsidiaries.

### 1 Product and Company Identification

**Product Use** 

Petrochemical industry: Detergent, Inhibitor

Validation Date

19 October 2005

In Case of Emergency

1-800-403-0044 (US & Canada) 1-804-648-7727 (International) 32-2-507-20-64 (Europe) 81-3-5210-4890 (Japan)

#### Manufacturer / Supplier

Afton Chemical Corporation 500 Spring St. Richmond, VA 23219 1-804-788-5800

In Japan: Afton Chemical Japan Corporation Sumitomo Fudousan Sanbancho Bldg. 5F 6-26 Sanbancho, Chiyoda-ku Tokyo 102-0075 Japan Emergency phone: 81-3-5210-4890 Afton Chemical Limited Euro-Tech Centre London Road, Bracknell, Berkshire RG12 2UW, England 44 1344-304141

In Australia:
Afton Chemical Asia Pacific Company
Level 9, 20 Berry Street
North Sydney, NSW 2060
Australia
Telephone number: 02-9923-1588
Business Hours: 9:00am - 5:00pm

## 2. Composition and Information on Ingredients

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information.

Substance/Preparation

: Preparation

Ingredient Name	CAS No.	Conc. (% w/w)	EU Classification	WHMIS Regulated?
Mineral Oil	Mixture.	30-60	Not controlled under DSD (Europe).	No.
Zinc dialkyl dithiophosphate Diphenylamine	68649-42-3 122-39-4	5-9.9 0.1-0.2	Xi; R36/38 T: R23/24/25	Yes. Yes.
· · · · · · · · · · · · · · · · · · ·			R33 N: R50/53	

### 3. Hazards Identification

#### Notice to Reader

Afton operates a world-wide system for hazard communication. Some hazards shown in Section 3 may apply to non-EU countries and may not result in classification and labeling in the EU. Please see Section 2 and 15 for country specific classification information, and Section 11 for additional details.

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Primary Hazards and Critical Effects

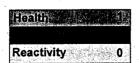
: WARNING!

CAUSES EYE IRRITATION.

**Environmental Hazards** 

: Not classified as dangerous for the environment according to EC criteria.

Hazardous Material Information System (U.S.A.)



HITEC 1336 Performance Additive In Case of Emergency 1-800-403-0044 (US/Canada) 1-804-648-7727 (Int'l) 32-2-507-20-64 (Eu) Page: 2/5

#### rst Aid Measures

Inhalation

: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear

Ingestion

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: If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Skin Contact

: Wash with soap and water. Get medical attention if irritation occurs.

**Eye Contact** 

: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

### Fire-Fighting Measures

**Extinguishing Media** 

In case of fire, use water spray (fog), foam, dry chemical, or CO2.

Fire-Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Hazardous Decomposition Products

These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...). Some metallic oxides. Hydrogen

#

Flash point

Closed cup: 135°C (275°F).(Pensky-Martens. Minimum)

#### 6. Accidental Release Measures

Personal Precautions

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

**Environmental Precautions** and Clean-up Methods

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface

Note: See section 1 for emergency contact information and section 13 for waste disposal.

## Handling and Storage

Handling

Avoid prolonged contact with eyes, skin, and clothing. Avoid contact with eyes. Wash thoroughly after handling.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

### 8. Exposure Controls and Personal Protection

**Engineering Controls** 

Personal Protective Equipment

Respiratory System

Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).

Skin and Body

Disposable outer garments when there is the potential for contact with the material.

Hands Eves

Use chemical resistant, impervious gloves.

Safety glasses with side shields. Goggles with a face shield may be necessary depending on quantity of material and conditions of use.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their

**Occupational Exposure Limits** 

Ingredient Name

Mineral Oil

**OEL United States** 

TWA: 5 mg/m<sup>2</sup>

STEL: 10 mg/m²

ACGIH (United States).

OSHA (United States). TWA: 5 mg/m<sup>3</sup>

respective threshold limit value.

**OEL Canada** 

STEL: 10 mg/m²

TWA: 5 mg/m<sup>3</sup>

OEL Europe

EH40 (UK) (Europe 2002).

TWA: 5 mg/m<sup>1</sup> 8

hour(s).

**OEL** Australia NOHSC (Australia, 2003).

TWA: 5 mg/m3 8 hour(s).

## Physical and Chemical Properties

Physical State and Appearance

: Liquid. (Viscous liquid.)

Color

: Brown. (Dark.)

Odor

: Mild. Petroleum.

Specific Gravity

: 0.979

Solubility

: Insoluble in cold water.

Viscosity

1762 cSt @ 40°C

Viscosity

: 99 cSt @ 100°C

Flash Point

Closed cup: 135°C (275°F) (Pensky-Martens, Minimum)

## 10. Stability and Readivity

Stability

The product is stable.

Materials to avoid

Strong exidizing and reducing agents.

Conditions to avoid

High temperatures, sparks, and open flames.

## 11. Toxicological Information

Routes of Entry

: Skin, Eyes, Inhalation and Ingestion.

Target Organs

Contains material which may cause damage to the following organs: eyes.

Acute Effects

Inhalation

Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.

Ingestion

Not determined.

Skin Contact

Non-irritating to the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the

skin, resulting in non-allergic contact dermatitis and absorption through the skin.

Eye Contact

Irritating to eyes. Does not meet EU R41 or R36 classification criteria,

Chronic Effects

Adverse Effects

Not determined.

Carcinogenic Effects

**Toxicity Data** 

Ingredient Name

Test

Result

Route

Species

=

Zinc dialkyl dithiophosphate

LD50 LD50 >2000 mg/kg >2000 mg/kg Oral Dermal Rat Rabbit

Other Information

: Not available.

#### 12. Ecological Information

**Environmental Hazards** 

Not classified as dangerous for the environment according to EC criteria. Based on calculation.

**Environmental Fate** 

This product contains components which may be persistent in the environment.

### 13. Disposal Consideration

Waste Handling and Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
DOT Classification	Not regulated.	- - -	-			-
TDG Classification	Not regulated.		-			
ADR/RID Class	Not regulated.		-			•
IMDG Class	Not regulated.		-			
IATA-DGR Class	Not regulated.		-			-
ADG Class	Not regulated.	- 1	-			-

#### Notice to Reader

The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

#### Regulatory Information

EU Regulations

Risk Phrases

: This product is not classified according to the EU regulations.

Safety Phrases

: Not applicable.

US Regulations

State

: SARA 313 toxic chemical notification and release reporting: Zinc dialkyl dithiophosphate 5-9.9%

: SARA 311/312 MSDS distribution - chemical inventory hazard identification: Immediate (Acute) Health Hazard

: California prop. 65: No products were found.

Canadian Regulations

WHMIS (Classification)

: Class D-2B: Material causing other toxic effects (TOXIC).

#### International Inventory Status

United States

: All components on TSCA Inventory

Canada

: All components on DSL

Europe

: One or more components not found on EINECS, but on ELINCS

Japan

: All components on METI

Australia

: All components on NICNAS

Korea

: All components on ECL

China

: All components on IECSC

Philippines

: One or more components not found on PICCS

#### 16. Other Information

#### PREPARATION INFORMATION

Validated by \_HS&E Department (Tel: +1 804 788 5800) on 10/19/2005.

Version

1.00

**Date of Printing** 

: 12/1/2005.

Indicates information that has changed from previously issued version.

#### Notice to Reader

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. Afton makes no representation as to completeness or accuracy. In no event will Afton be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

#### ADDRESS CONTACT INFORMATION

In the United States and Canada: Afton Chemical Corporation 500 Spring Street Richmond, Virginia USA 23219-2183 Telephone number: 804-788-5800

In Singapore: Afton Chemical Asia Pacific Company

111 Somerset Road #09-05

Singapore Power Building Singapore 238164

Telephone number: 65-6732-0822

In Europe: Afton Chemical Limited Euro-Tech Centre London Road, Bracknell, Berkshire RG12 2UW, England 44-1344-304141

In Japan: Afton Chemical Japan Corporation Sumitomo Fudousan Sanbancho Bldg. 5F 6-26 Sanbancho, Chiyoda-ku Tokyo 102-0075 Japan Emergency phone: 81-3-5210-4890

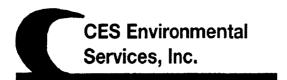
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In Australia
Afton Chemist Asia Pacific Company
Level 9, 20 Barry Street
North Sydna NSW 2060
Australia
Telephone number: 02-9923-1588
Business Hours: 9:00am - 5:00pm

\*\*\* END OF MSDS \*\*\*

1848

CES 2481



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## **Material / Product Approval Letter**

Date 10/23/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2481

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

#### Material / Product Information

Name of Material / Product Base oil

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Recovered from various customers

**Odor:** Hydrocarbon

**pH:** 3-11

**Physical State:** 

Color: Dark

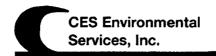
Incompatibilities: Strong oxidizers Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Produc	cer Inforr	nation								
Company :	CES Er	nvironme	ntal Ser	vices, Inc.							
Address :	4904 G	riggs Rd	4904 G	riggs Roa	ıd						
City, State, Zip:	Houston	n TX 770	21								
Contact :	Matt Bo	wman					Tit	tle :	Pereside ut		
Phone No:	(713) 6	76-1460					Fa	<b>x:</b>	713-676-16	76	
24 / HR Phone :											
U.S EPA I.D No:	na									·	
State I.D :	na						SI	C Code	na		
SECTION 2: Billing	Informat	tion									
Company :	CES En	vironme	ntal Ser	vices, Inc.							
Address :	4904 G	riggs Rd	4904 G	riggs Roa	ıd						
City, State, Zip :	Houston	1 TX 770	21								
Contact :							Tit	tle :			
Phone No :	(713) 67	76-1460					Fa	x:			
SECTION 3: Genera	al Descri	otion of t	he Mater	ial / Produ	ct						
Name of Mateiral					••						
Detailed Descript				oratina o	r Droduo	ina tha	Motorial	Broduc			
Recovered from va				crating o	FIOGUC	ing uie	Wateriai /	riouuc	, L.		
Necovered nom v	anous cc	istomers	1								
Physical State :	<b>✓</b>	Liquid		SI	udge		Powde	er			
		Solid		🥦 Fil	ter Cake		Combi	ination			
Color:				Dark		Odd	or:		Н	ydrocarbon	
Specific Gravity (	  Water=1	I):		0.88-0.94	ļ	Der	nsity :		7-7	.5	lbs / gal
Layers :		Single-F	has	∭ Mo	ulti-Phas	<b>e</b>					_
Camtainas Tuna .		D		Tata	(Fig. 1)	Turnele		lla au (aseu	-l-in)		
Container Type :		Drum		Tote		Truck	<b>■ O</b> t	her (exp	piain)		
Container Size :	· <u>- : </u>	· · · · · · · · · · · · · · · · · · ·	<u> </u>				·	· · ·			
Number Of Units	•		<u></u>								
Proper U.S. DOT	Shippin	g Name	:			N	lon-RCRA	/Non DC	T regulated oil		
Class: na			UN/NA	: na			PG:	na		RQ:	na
Flash Poin	nt		рН		React	ive Su	lfides	Reac	tive Cyanides	Solid	
>150			3-11			0	mg/L		0 mg/L	0-1	1 %
Oil and Grea	ise		TOC			Zinc			Copper	Nick	el
na	mg/l		na	mg/l		na	mg/l		na mg/l	na na	mg/l

#### SECTION 4: Physical and Chemical Data

of this material / product requires the use of special protective equipment, please explain.  ched Supporting Documents ents, notes, data, and/or analysis attached to this form as part of the material / product profile.  Impatibilities Incompatibilities (if any):  Serial Producer's Certification In contained herein is based on generator knowledge and/or analytical data. I hereby cerity that to ched description is complete and accurate to the best of my knowledge and ability to determine that no illiful omissions of composition properties exist and that all known or suspected hazards have been ritify that the materials tested are representative of all materials described by this document.  In the impatibilities  Onter in the product	The material / product consists of the following materials	Concentration	Units
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## CES Environmental Services, Inc. 4904 Griggs Road Houston. TX 77021

# Oil Base 100 Neutral Material Safety Data Sheet

#### **IMPORTANT**

Read this MSDS before handling or disposing of this product and pass this information on to employees, customers and users of this product.

**Emergency Overview:** 

Physical State:

Liquid.

Color:

Clear to Light Amber

Odor:

Mild Petroleum Odor

Protect eyes from mistsing or spraying material. Protect exposed skin from repeated or prolonged exposure. Do not store material in open or unmarked containers. Spills may create a slipping hazard.

Hazard Rankings	HMIS	NFPA
Health Hazard	0	0
Fire Hazard	1	1
Reactivity	0	0

<sup>\* =</sup> Chronic Health Hazard

SECTION 1 - Product and Company Identification

SECTION 2 - Composition

SECTION 3 - Hazards Identification

SECTION 4 - First Aid Measures

SECTION 5 - Fire Fighting Measures

SECTION 6 – Accidental Release Measures

SECTION 7 - Handling and Storage

SECTION 8 - Exposure Controls and Personal Protection

SECTION 9 - Physical and Chemical Properties

SECTION 10 - Stability and Reactivity

SECTION 11 - Toxicological Information

SECTION 12 - Ecological Information

SECTION 13 - Disposal Considerations

SECTION 14 - Transport Information

SECTION 15 - Regulatory Information

SECTION 16 - Other Information

## SECTION 1 - Product and Company Identification

**Product Name:** 

OIL BASE 100 NEUTRAL

MSDS No. 627006001 Revision Date 02/12/2003

Manufacturer:

CES ENVIRONMENTAL SERVICES, INC.

Oil Base 100 Neutral (MSDS)

09/19/07

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## 4904 GRIGGS ROAD HOUSTON, TX 77021

For More Information Call:

713 -676 -1460

**Technical Service** 

Monday - Friday 8:00 AM - 5:00 PM

Incase of Emergency Call:

CHEMTREC (USA) 1-800-424-9300

CANUTEC (CANADA) 1 -613 -996 -6666 24 HOURS / DAY and 7 DAYS / WEEK

Synonym:

Praffinic Base Oil

**Product No:** 

627006001

Chemical:

**Product Family:** 

Base Oil

CAS No:

Mixture

### SECTION 2 - Composition and Information on Ingredients Component

#### Component Name(s)

CAS Registry No.

Concentration (%)

1. Distillates, petroleum, solvent-refined light paraffinic

64741-89-5

70-90

2. Distillates, petroleum, solvent-refined heavy paraffinic

64741-88-4

10-30

#### SECTION 3 - Hazards Identification

Also see Emergency Overview and Hazard Rating on Page 1 of this MSDS.

Major Route(s) of Entry: Skin Contact.

#### Signs and Symptoms of Acute Exposure:

#### Inhalation:

No significant adverse health effects are expected to occur upon short-term exposure.

This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists.

#### **Skin Contact:**

This material can cause mild skin irritation from prolonged or repeated skin contact. Injection under the skin can cause inflammation and swelling. Injection of pressurized hydrocarbons can cause severe, permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention.

#### Ingestion:

If swallowed, large volumes of material can cause generalized depression, headache, drowsiness, nausea, vomiting and diarrhea. Smaller doses can cause a laxative effect. If aspirated into the lungs, liquid can cause lung damage.

Oil Base 100 Neutral (MSDS)

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#### **Chronic Health Effects:**

Contains a petroleum-based mineral oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking (dermatitis), or oily acne. Repeated or prolonged inhalation of petroleum-based mineral oil mists at concentrations above applicable workplace exposure levels can cause respiratory irritation or other pulmonary effects.

### **Conditions Aggravated by Exposure:**

Medical conditions aggravated by exposure to this material may include pre-existing skin disorders.

## **Target Organs:**

This material may cause damage to the following organs: Skin

#### Carcinogenic Potential:

This product does not contain any components at concentrations above 0.1%, which are considered carcinogenic by OSHA, IARC or NTP.

OSHA Hazard Classification is indicated by an "X" in the box adjacent to the hazard title. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA Health Haza Irritant () Toxid		Highly Toxic ()	Corrosive ()	Carcinogenic ()	)
OSHA Physical Ha Combustible () Water-reactive ()	zard Classification Explosive () Compressed Gas ()	Pyrophoric Organic Peroxide	() Flammable () Unstable	() Oxidizer ()	)

#### SECTION 4 - First Aid Measures

Take proper precautions to ensure your own health and safety before attempting rescure or providing first aid. For specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

#### Inhalation:

Vaporization is not expected at ambient temperatures. This material is not expected to cause inhalation-related disorders under anticipated conditions of use. In case of overexposure, move the person to fresh air.

#### **Eye Contact:**

Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water by lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persist.

#### **Skin Contact:**

If burned by hot material, cool skin by quenching with large amounts of cool water. For contact with product at ambient temperatures, remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persist. Thoroughly clean contaminated clothing before reuse. Discard

Oil Base 100 Neutral (MSDS)

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contaminated leather goods. If material is injected under the skin, seek medical attention immediately.

#### Ingestion:

Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is no fully conscious. If significant amounts are swallowed or irritation or discomfort occurs, seek medical attention immediately.

### Notes to Physician:

The viscosity range of the product represented by this MSDS is 100 to 400 SUS at 100F. Accordingly, upon ingestion there is low to moderate risk of aspiration. Careful gastric lavage may be considered to evacuate large quantities of material. Subcutaneous or intramuscular injection requires prompt surgical debridement.

## **SECTION 5 – Fire Fighting Measures**

NFPA Flammability Classification: NFPA Class-IIIB combustible material. Slightly combustible.

Flash Point Method: Open Cup: 198C (388F) (Cleveland. (Minimum)).

Lower Flammable Limit: No Data

**Upper Flammable Limit:** No Data

Autoitgnition Temperature: Not Available

#### **Hazardous Combustion Products:**

Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur and/or nitrogen.

#### **Special Properties:**

This material can burn but will not readily ignite. This material will release vapors when heated above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point.

#### **Extinguishing Media:**

Use dry chemical, foam, carbon dioxide or water fog.

#### **Protection of Fire Fighters:**

Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.

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#### SECTION 6 - Accidental Release Measures

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard; do not walk through spilled material. Stop leak if you can do so without risk. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Prevent entry into waterways or sewers. In urban area, cleanup spill as soon as possible. In natural environments, seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used. Comply with all laws and regulation.

### **SECTION 7 – Handling and Storage**

#### Handling:

Avoid contamination and extreme temperatures to minimize product degradation. Empty containers may contain product residues that can ignite with explosive force. Do not pressurize, cut, weld, braze solder, drill, grind or expose containers to flames, sparks, heat or other potential ignition sources. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming recycling or disposing of empty containers and/or waste residues of this product.

### Storage:

Keep container closed. Do not store with strong oxidizing agents. Do not store at elevated temperatures. Avoid storing product in direct sunlight for extended periods of time. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers or waste residues of this product.

#### SECTION 8 – Exposure Controls / Personal Protection

#### **Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mistss and/or vapors below the recommended exposure limits (see below). An eye wash station and safety shower should be located near the work-station.

#### **Personal Protective Equipment:**

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following pictograms represent the minimum requirements for personal protective equipment. For certain operations, additional PPE may be required.

#### **Eye Protection:**

Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Wear goggles and/or face shield if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125F (51C). Have suitable eye wash water available.

Oil Base 100 Neutral (MSDS)

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#### **Hand Protection:**

Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. Use heat-protective gloves when handling product at elevated temperatures.

#### **Body Protection:**

Use clean and impervious protective clothing (e.g., neoprene or Tyvek) if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. If significant contact occurs, remove oil-contaminated clothing as soon as possible and promptly shower. Launder contaminated clothing before reuse or discard. Wear heat protective boots and protective clothing when handling material at elevated temperatures.

## **Respiratory Protection:**

Vaporization is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mists prefilter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).

#### **General Comments:**

Use good personal hygiene practices. Wash hands and other exposed skin areas with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities, or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners. Since specific exposure standards/control limits have not been established for this product, the "Oil Mists, Mineral" exposure limits shown below are suggested as minimum control guidelines.

#### **Occupational Exposure Guidelines:**

Substance: Oil Mists, Mineral

Applicable Workplace Exposure Levels: ACGIH (United States)

TWA: 5 mg/m3 Stel: 10 mg/m3

OSHA (United States) TWA: 5 mg/m3

## **SECTION 9 – Physical and Chemical Properties**

Physical State: Liquid
Color: Clear to Light Amber
Odor: Mild Petroleum Odor
Specific Gravity: 0.86 (Water =1)

pH: Not Applicable

**Vapor Density:** >1 (Air = 1)

**Boiling Point / Range:** Not Available **Melting / Freezing Point:** Not Available

Oil Base 100 Neutral (MSDS)

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Vapor Pressure: <0.01 kPa (<0.1 mmHg) (at 20C)

Viscosity: (cSt @ 40C) 20

Solubility in Water: Insoluble in Cold Water Volatile Characteristics: Negligible Volatility

Additional Properties: Gravity, API (ASTM D287) = 32.5 @ 60F

Density = 7.18 lbs/gal

Viscosity (ASTM D2161) = 104 SUS @ 100F

#### SECTION 10 - Stability and Reactivity

Chemical Stability: Stable

Hazardous Polymerization: Not expected to occur

Materials Incompatibility: Strong Oxidizers

#### Conditions to Avoid:

Keep away from extreme heat, sparks, open flame, and strongly oxidizing conditions.

#### **Hazardous Decomposition Products:**

No additional hazardous decomposition products were identified other than the combustion products identified in Section 5 of this MSDS.

#### SECTION 11 - Toxicological Information

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

**Toxicity Data:** Distillates, Petroleum, Solvent-Refined Light Paraffiniuc:

Oral (LD50): Acute: >5000 mg/kg [Rat]
Dermal (LD50): Acute: >2000 mg/kg [Rabbit]

Distillates, Petroleum, Solvent-Refined Heavy Paraffinic:

Oral (LD50): Acute: >5000 mg/kg [Rat]
Dermal (LD50): Acute: >2000 mg/kg [Rabbit]

### Distillates, Petroleum, Solvent-Refined Light Paraffiniuc:

Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral mists at or near current work place exposure levels produced no significant toxicological effects. In long-term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.

Oil Base 100 Neutral (MSDS)

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## Distillates, Petroleum, Solvent-Refined <u>Heavy</u> Paraffinic:

Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil in animals. Effects from single and short-term repeated exposure to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid, granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. In long-term studies (up to two years) no carcinogenic effects have been reported in any animal species attested. Analyses conducted by method IP 346 indicate that the polycyclic aromatic concentration of this mineral oil is below 3.0 weight percent.

## SECTION 12 - Ecological Information

## **Ecotoxicity:**

Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.

#### **Environmental Fate:**

An environmental fate analysis has not been conducted on this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

#### SECTION 13 - Disposal Considerations

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Conditions of use may cause this material to become a "hazardous waste", as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a RCRA "hazardous waste" at the time of disposal. Transportation, treatment, storage and disposal of waste materials must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact the RCRA/Superfund Hotline at 800-424-9346 or your regional U.S. EPA office for guidance concerning case specific disposal issues.

## **SECTION 14 – Transport Information**

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

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#### U.S. DOT Status:

Not regulated by the U.S. Department of Transportation as a hazardous material

Proper Shipping Name: Not Regulated

Hazard Class: Not Regulated

Packing Group(s): Not Applicable

Un / NA ID: Not Regulated

#### Reportable Quantity:

A Reportable Quantity (RQ) has not been established for this material.

Placards:

Emergency Response Guide No: Not Applicable

**HAZMAT STCC No: 2911990** 

MARPOL III Status: Not a DOT "Marine Pollutant" per 49 CFR 1718

### SECTION 15 - Regulatory Information

### **TSCA Inventory:**

This product and/or its components are listed on the Toxic Substance Control Act (TSCA) inventory.

#### SARA 302/304:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

#### SARA 311/312:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: No SARA 311 / 312 hazard categories identified.

#### **SARA 313:**

This product contains the following components in concentrations above de minimis levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA: No Components were identified.

#### **CERCLA:**

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQs) listed in 40 CFR 302.4. As

Oil Base 100 Neutral (MSDS)

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defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical Substances present in this product or refinery stream that may be subject to this statue are: None Identified.

#### CWA:

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at 800-424-8802

#### California Proposition 65:

This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health and Safety Code Section 25249.5): Toluene: 0.001%

New Jersey Right-to-Know Label: Petroleum Oil

Additional Regulatory Remarks: No additional regulatory remarks

#### SECTION 16 - Other Information

Refer to Page 1 for the HMIS and NFPA hazard Ratings for this product.

**Revision Information:** Version Number: 1.1

Revision Date: 02/12/2003

Print Date: Printed on 02/12/2003

#### **ABBREVATIONS:**

>: Greater than <br/><: Less than

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygienists Associations

AP: Approximately

**EPA:** U.S. Environmental Protection Agency

EQ: Equal

HMIS: Hazardous Materials Information System

IARC: International Agency for Research on Cancer

NA: Not Applicable

ND: No Data

NE: Not Established

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health NPCA: National Paint and Coating Manufacturers Association

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

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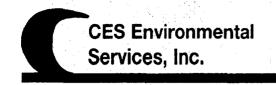
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### Disclaimer of Liability:

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED REGARDING ITS CORRECTNESS. SOME INFORMATION PRESENTED AND CONCLUSIONS DRWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE SUBSTANCE ITSELF. THIS MSDS WAS PREPARED AND IS TO BE USED ONLY FOR THIS PRODUCT. IF THE PRODUCT IS USED AS A COMPONENT IN ANOTHER PRODUCT, THIS MSDS INFORMMITON MAY NOT BE APPLICABLE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE.

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE, AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE AERISING OUT OF OR IN ANY WAY CONNECTED WITH HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

\*\*\*\*\* END OF MSDS \*\*\*\*\*



## Waste Pre-Acceptance/Approval Letter

Date 10/22/2007

Dear Ruben Fernandez

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2482

**Generator:** Dana Container **Address:** 902 Sens Road

La Porte, TX 77572

Waste Information

Name of Waste: Sandblat Grit TCEQ Waste Code #: 10073892

Container Type:

cy box

**Detailed Description of Process Generating Waste:** 

Blasting metal

Color: varies

Odor: none

pH: na

**Physical State:** 

Incompatibilities: none

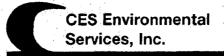
Safety Related Data/Special Handling:

none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	erator Information				
Company:	Dana Container		.*		
Address:	902 Sens Rd		:		
City, State, Zip:	LaPort TX 77571				
Contact:			Title:		
Phone No:	713-826-1329		Fax No:		
24/hr Phone:			<u> </u>		
U.S. EPA I.D. No:	TXD00890461				
State I.D.	41563		SIC Code:	NA	
SECTION 2. Pillin	g Information – 🔀 S	Samo as Abova	ata a		
Company:	z intormation – 🖂 .	Same as Above			
Address:					<del></del>
City, State, Zip:					
City, State, Zip.  Contact:		Title:	,		
-		Fax No:			
Phone No:	<del></del>	rax No:		The state of the s	
SECTION 3: Gene	ral Description of the	e Waste			
Name of Waste: Sa Detailed Description		ing Waste: Blasting of meta	1		
Physical State:	☐ Liquid	Sludge [	Powder		
i nysicui state.			Combination		
	⊠ Solid	Filter Cake	_ Combination		v <sub>a</sub>
Color: <u>Varies</u>		Odor: None			
Specific Gravity (wa	ater=1): <u>N/A</u>	Density: N/A lbs/gal			
Layers:	Single-phase	Multi-phase			
Container Type:	☐ Drum	☐ Tote ☐	Truck		(explain)
· -			Huck	<del></del>	· -
Container Size:	· . — _	<u> </u>		CY Ba	<u>gs</u>
Frequency:	☐ Weekly	☐ Monthly 🛛	Quarterly	☐ Yearly	
Number of Units (co		Other:	<b>Q 4</b>		\$₽
		<u> </u>	**		
Texas State Waste C	Lode No:	$\infty 73892$			<del>=</del>
Proper U.S. DOT Sh	nipping Name:	Non DOT Regulated I	Material		<u></u>
Class: NA	UN/N	A: NA	PG: N	A	RQ: NA
Flack Doint		Donatina Culedan	Deagting C		
Flash Point	pH	Reactive Sulfides	Reactive Cy		lids
>160 Oil & Crease	N/A	<20mg/I NA	< <u>20</u> mg/[/V]		0%
Oil&Grease	TOC	Zinc	Copper	Nickel	
N/Amg/I	N/Amg/I	N/Amg/L	<u>N/A</u> mg/I	N/Amg/I	

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials			Concentration Ranges are acceptable	Units or %	
Sandblast Media		:		98-99	%
Rust				0-2	%
Paint		1.5		0-2	%

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. None

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): None

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>x</u>
TCLP Volatiles:	<u>x</u>
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	X
Corrosivity:	X
Ignitability:	<u>X</u>

#### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.



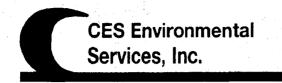
Authorized Signature:	Date: <u>62/1</u> 8/57
Printed Name/Title: Tons Gubson Plant Manager	•

CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Library Compliance Offi	Process Facility Information: Redwell to For BFI-M	Y04 ==
Date: 10 - 23 - 07 Approved Rejected Approval Number: 2482	Change tryoullow + 15/4	

OPOTION 10 Was David Clariff at all India 40 CF	D 427		
SECTION 10: Waste Receipt Classification Under 40 CF	<u>R 437</u>		
Is this material a wastewater or wastewater sludge?   YES	NO 🔀		
If 'Yes', complete this section.			
PLEASE CHECK THE APPROPRIATE BOX. IF NO APP	PROPRIATE CATE	GORY, GO TO	O THE NEXT PAGE.
Metals Subcategory: Subpart A			
metals Subcategory. Subpart A			* 1
<ul> <li>□ Spent electroplating baths and/or sludges</li> <li>□ Metal finishing rinse water and sludges</li> <li>□ Chromate wastes</li> <li>□ Air pollution control blow down water and sludges</li> </ul>			
Spent anodizing solutions			
Incineration wastewaters			
<ul> <li>☐ Waste liquid mercury</li> <li>☐ Cyanide-containing wastes greater than 136 mg/l</li> </ul>			
Waste acids and bases with or without metals			
Cleaning, rinsing, and surface preparation solutions from	electroplating or ph	osphating oper	ations
Vibratory deburring wastewater		<b>.</b>	
Alkaline and acid solutions used to clean metal parts or ed	quipment	* •	
Oils Subcategory: Subpart B			
Used oils Oil-water emulsions or mixtures			ta esta de la compania
Lubricants			
Coolants	1		
Contaminated groundwater clean-up from petroleum sour	ces		
<ul><li>☐ Used petroleum products</li><li>☐ Oil spill clean-up</li></ul>			
Bilge water		•	
Rinse/wash waters from petroleum sources		,	
Interceptor wastes			
<ul><li>Off-specification fuels</li><li>Underground storage remediation waste</li></ul>			
Tank clean-out from petroleum or oily sources			
Non-contact used glycols			
Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes			
wastewater from on bearing paint wastes			
Organics Subcategory: Subpart C			
☐ Landfill leachate			
Contaminated groundwater clean-up from non-petroleum	sources		
Solvent-bearing wastes		1	•
☐ Off-specification organic product ☐ Still bottoms			
Byproduct waste glycol		, in the state of	
☐ Wastewater from paint washes			
Wastewater from adhesives and/or epoxies formulation		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	٠		
- rank cican-out from organic, non-perfording sources		· . · · · · · · · · · · · · · · · · · ·	
			· · · · · · · · · · · · · · · · · · ·
June 2004 1997 1997 1997 1997 1997 1997 1997 199	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
		w 0000c	

(2)		se less than 100 mg/L, and has an aste should be classified in the met	y of the pollutants listed below in corals subcategory.	ncentrations in exces
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L			
(3)	•		ot have concentrations of cadmium, cassified in the organics subcategory.	chromium, copper, o
	☐ Metals Subcategory			
	<ul><li>☐ Metals Subcategory</li><li>☐ Oils Subcategory</li><li>☐ Organics Subcategory</li></ul>			

Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 10/26/2007

Dear Rick Sinclair

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2483

Generator: Angel Brothers
Address: 5210 West Road

Baytown, TX 77522

**Waste Information** 

Name of Waste: Asphalt drums TCEQ Waste Code #: CESQ6031

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Removal of asphalt during tank cleaning

Color: dark Ode

**Odor:** hydrocarbon

**pH:** 8-11

**Physical State:** 

Incompatibilities: none known

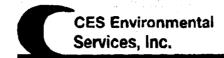
Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. ĩ.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

		_
SECTION 1: Gene	arator Information	
Company:	Angel Brothers Enterprises, Ltd.	
Address:	5210 West Road	
City, State, Zip:	Baytown, TX 77522	
Contact:	Bobby Fehring Title: Shop Manager	
Phone No:		<del></del>
	281-421-1771 Fax No: 281-421-0552	
24/hr Phone:	_ <del></del>	11.5
U.S. EPA I.D. No:	NA STORY NA	
State I.D.	NA SIC Code: NA	
	ng Information - Same as Above	
Company:	Angel Brothers - Accounts Payable	
Address:	PO Box 57	
City, State, Zip:	Baytown, TX 77522	
Contact:	Title:	
Phone No:	Fax No:	
-		
<b>SECTION 3:</b> Gene	ral Description of the Waste	
Name of Waste: As	obalt drums	
	n of Process Generating Waste: removal of asphalt during tank cleaning	
• •		
Physical State:	☐ Liquid ☐ Sludge ☐ Powder	
	Solid Filter Cake Combination	
	☐ Solid ☐ Filter Cake ☐ Combination	
Calana		
Color: Dark	Odor: <u>hydrocarbon</u>	
Specific Gravity (wa	hter=1): 1.2 Density: 9 lbs/gal	
Layers:	Single-phase Multi-phase	
	_ · · .	
Container Type:	□ Drum □ Tote □ Truck □ Other (explain)	
Container Size:		
Cuntainei Size:	<u>55 gal</u>	
Frequency:	□ Weekly □ Monthly ⊠ Quarterly □ Yearly	
•	· · · · · · · · · · · · · · · · · · ·	
Number of Units (co	ntainers): 10 Other:	
Texas State Waste C	code No: CESQ6031	
Proper U.S. DOT Sh		
Total - American		
Class: NA	UN/NA: NA PG: NA RQ: NA	
-		
lash Point	pH Reactive Sulfides Reactive Cyanides Solids	
140	8-11 NAmg/I NAmg/I 80-90%	- i-
dil A Grease	TOC Zinc Nickel	4
1500mg/l	>1500mg/l NAmg/l NAmg/l NAmg/l	7
		]

#### SECTION 4: Physical and Chemical Data

	COMPONENTS/FARIJE  The waste consists of the following materials	Concentration  Ranges are acceptable	Units or %	
Asphalt		100	%	
			<u> </u>	

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. <u>Standard</u>

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): none known

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

mot nad	
TCLP Metals:	X
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	<u>X</u>
Corrosivity:	X
Ignitability:	$\overline{\mathbf{x}}$

#### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	Date: <u>10-31-06</u>
Printed Name/Title: Bobby Fehring	
	**************************************
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Valland Thank	Process Facility Information:
Date: 10-26-07 Approved Rejected	Please check with Dana
21102	for parcing info
Approval Number: 2483	D5T
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	San and the san an

4 <b>9</b>	ECTION 10: Waste Receipt Classification Under 40 CF	R 437				
	s this material a wastewater or wastewater sludge? YES					
	f 'Yes', complete this section.					
	LEASE CHECK THE APPROPRIATE BOX. IF NO APP	PROPRIATE	CATEGORY, GO	O TO THE N	EXT PAGE.	
	tals <u>Subcategory</u> : Subpart A					
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or e		g or phosphating	operations		
<u> Oi</u>	s Subcategory: Subpart B					
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sou Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operation. Wastewater from oil bearing paint washes					
<u>Or</u>	ganics Subcategory: Subpart C  Landfill leachate					
	Contaminated groundwater clean-up from non-petroleum Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxics formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources					

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copp	ег, с	Dr
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.		

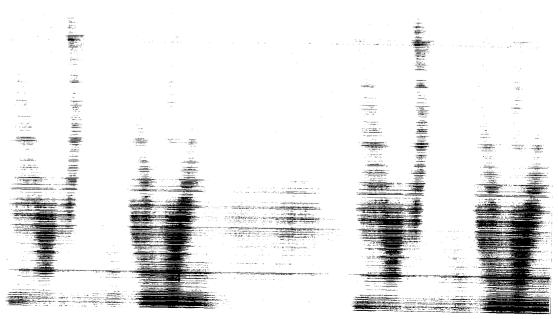
Metals Subcategory

Oils Suhcategory

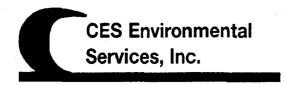
Organics Subcategory

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



CES 2484



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## **Material / Product Approval Letter**

Date 10/31/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2484

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

## Material / Product Information

Name of Material / Product Diluted glycols Container Type:

## Detailed Description of Process Generating or Producing the Material / Product:

Diluted glycols consisting of ethylene glycol and propylene glycol from various customer

Color: Clear oily liquid

Odor: Glycol like

**pH**: 9-12

**Physical State:** 

Incompatibilities: see MSDS

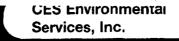
Safety Related Data/Special Handling:

see MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	ial Producer Info	ormation							
Company :	CES Environn	nental Services, I	nc.						
Address :	4904 Griggs F	Rd 4904 Griggs F	Road						
City, State, Zip:	Houston TX 7	7021							
Contact :	Matt Bowman			· · · · · · · · · · · · · · · · · · ·	T	itle :			
Phone No:	(713) 676-146	60			F	ax :			
24 / HR Phone :									
U.S EPA I.D No:	na		- the second						
State I.D:	na				s	SIC Code na			
SECTION 2: Billing	Information								
Company :	CES Environm	nental Services, li	nc.						
Address :	4904 Griggs R	Rd 4904 Griggs F	load						
City, State, Zip:	Houston TX 7	7021							
Contact:					Т	itle :			
Phone No :	(713) 676-146	0			F	ax:			
SECTION 3: Genera	al Description of	f the Material / Pro	duct						
Name of Mateiral	· · · · · · · · · · · · · · · · · · ·								
Detailed Descripti			or Produc	ing the M	aterial	/ Product:			
Diluted glycols con									
Physical State :	Liquid	#" <b>!</b>	Sludge	, a.v. 3	Powd	er			
	Solid		Filter Cake		Comb	ination			
Color:		Clear oily	liquid	Odor :	ı :		Glyc	ol like	
Specific Gravity (V	 Vater=1) :	1.02-1.	10	Densi	ty:		8.4-8.6		lbs / gal
Layers :	✓ Single-	Phas 🖪 l	/lulti-Phas	e					
Container Type:[	Drum	Tote	<b></b>	Truck	<b>O</b>	ther (explain)			
Container Size :			-						
Number Of Units :									
Proper U.S. DOT S	hipping Name	):	è	Non-RC	RA/No	n-DOT Regulate	ed Material		
Class: na		UN/NA :na	9		PG:	na		RQ:	na
Flash Point		рН	React	ive Sulf	i des	Reactive	Gastel	Solid	
>150		9-12			9[L]		79/2	0	%
Oil and Greas	e	TOC	1	Zinc		Coppe	r	Nicke	el
na	mg/l	na mg/		0	mg/l	0	mg/l	0	mg/l

#### SECTION 4: Physical and Chemical Data

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

10/23/2007

Compliance Officer:

Approval Number:

Date:

Prabhakar Thangudu

Status:

Approved

2484

Rejected

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Ethylene Glycol	20-30	%
Propylene Glycol	20-30	%
Water	40-60	·%
SECTION 5: Safety Related Data		
f the handling of this material / product requires the use of special protecti ee MSDS	ve equipment, please explain.	
ECTION 6: Attached Supporting Documents		
ist all documents, notes, data, and/or analysis attached to this form as par	t of the material / product profile.	
ISDS		
ECTION 7: Incompatibilities  lease list all incompatibilities (if any): ee MSDS		
ECTION 7: Incompatibilities lease list all incompatibilities (if any):		
ECTION 7: Incompatibilities lease list all incompatibilities (if any):		
ECTION 7: Incompatibilities lease list all incompatibilities (if any): ee MSDS	knowledge and ability to determine to known or suspected hazards have be	that no
ECTION 7: Incompatibilities  lease list all incompatibilities (if any): lee MSDS  ECTION 8: Material Producer's Certification line information contained herein is based on   generator knowledge and leave and attached description is complete and accurate to the best of my beliberate or willful omissions of composition properties exist and that all k	knowledge and ability to determine to known or suspected hazards have be	that no

Special Pricing / Analytical Info:
Make Suze the product is
free of sdids and oil. Run
% glycols.
Recommended Treatment:

## **Material Safety Data Sheet**

**DILUTED GLYCOLS** 

SECTION I - Material Identity

SECTION II - Manufacture's Information

SECTION III - Physical/Chemical Characteristics

SECTION IV - Fire and Explosion Hazard Data

SECTION V - Reactivity Data

SECTION VI - Health Hazard Data

SECTION VII - Precautions for Safe Handling and Use

SECTION VIII - Control Measures

SECTION IX - Label Data

SECTION X - Transportation Data

SECTION XI - Site Specific/Reporting Information

SECTION XII - Ingredients/Identity Information

SECTION I - Material Identity

Item Name Diluted Glycols (Ethylene glycol, Propylene Glycol)

Trade Name Diluted Glycols (Ethylene glycol, Propylene Glycol)

HAZ Code

SECTION II - Manufacture's Information

Manufacture's Name CES Environmental Services, Inc.

Street 4904 Griggs Road

City Houston
State Texas
Country USA
Zip Code 77021

Emergency Phone No. 1-800-424-9300 (CHEMTREC)

Information Phone No. 713-676-1460

**MSDS PREPARER'S INFORMATION** 

Street 4904 Griggs Road

City Houston State Texas Zip Code 77021

Date MSDS Prepared/Revised 28 May 2007 Date of Technical Review 28 May 2007

**Active Indicator** 

## SECTION III - Physical / Chemical Characteristics

Appearance / Odor	CLEAR LIQUID WITH MILD ODOR
Boiling Point	387 F
Melting Point	8 F
Vapor Pressure	0.1
Vapor Density	2.1
Specific Gravity	1.2
Decomposition Temperatu	ıre N/K
Evaporation Rate	>1
Solubility in Water	100%
Percent Volatiles by Volun	ne 0
Chemical pH	10 – 11
Corrosion Rate	N/K
Container Pressure Code	4
Temperature Code	8
Product State Code	L ·

## SECTION IV - Fire and Explosion Hazard Data

Flash Point	227
Flash Point Method	PMCC
Lower Explosion Limit	3.2
Upper Explosion Limit	15.3
Extinguishing Media	LARGE: USE ALCOHOL TYPE / ALL PURPOSE FOAMS

Small: USE WATER SPRAY, CO2 / DRY CHEMICAL
DON'T SPRAY POOL FIRES DIRECTLY. COOL FIRE

EXPOSED CONTAINERS WITH WATER. FIREFIGHTERS SHOULD WEAR POSITIVE PRESSURE SCBA AND FULL

PROTECTIVE CLOTHING

Unusual Fire / Explosion Hazards A SOLID STREAM OF WATER / FOAM DIRECTED INTO

HOT, BURNING LIQUID CAN CAUSE FROTHING

#### SECTION V - Reactivity Data

Stability	YES
Stability Conditions to Avoid	N/K

Materials to Avoid STRONG BASES AT HIGH TEMPS, STRON ACIDS,

STRONG OXIDIZING AGENTS AND MATERIALS REACTIVE WITH HJYDROXYL COMPOUNDS CARBON MONOXIDE, CARBON DIOXIDE

Hazardous Decomposition Products

Hazardous Polymerization

NO

Polymerization Conditions to Avoid

WILL NOT OCCUR

#### SECTION VI - Health Hazard Data

Route of Entry: Skin YES
Route of Entry: Ingestion YES
Route of Entry: Inhalation YES

Health Hazards – Acute / Chronic EYE AND UPPER RESPIRATORY IRRITANT.

MAY CAUSE NAUSEA, VOMITING, HEADACHE, DROWSINESS, BLURRED VISION, CONVULSIONS, COMA OR DEATH IF INGESTED OR INHALED. PROLONGED OF REPEATED SKIN CONTACT MAY CAUSE DERMATITIS OR SKIN SENSITIZATION.

Carcinogenity: NTP NO
Carcinogenity: IARC NO
Carcinogenity: OSHA NO

Explanation of Carcinogenity NONE OF THE COMPONENTS ARE LISTED AS A

CARCINOGEN

Symptoms of Overexposure (INHALE) IRRITATION OF NOSE / THROAT WITH

HEADACHE, PARTICULARLY FROM MISTS. HIGH VAPOR CONCENTRAIONS MAY CAUSE NAUSEA, VOMITING, HEADACHE, DIZZINESS AND IRREGULAR EYE MOVEMENTS. (SKIN) NO ADVERSE EFFECTS

(EYE) LIQUID VAPORS OR MIST MAY CAUSE DISCOMFORT IN THE EYE WITH PERSISTENT

CONJUNCTIVITIS, SEEN AS SLIGHT EXCESS REDNESS OR CONJUNCTIVIA. SERIOUS CORNEAL INJURY IS

NOT ANTICIPATED.

Medical Condition:

Aggrevated by Exposure UNLIKELY TO AGGRAVATE EXISTING MEDICAL

CONDITIONS

Emergency / First Aid Procedures (INHALE) MOVE TO FRESH AIR. IF BREATHING HAS

STOPPED, GIVE CPR. IF BREATHING IS DIFFICULT GIVE OXYGEN. (SKIN) REMOVE CONTAMINATED CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER. (EYES) FLUSH WITH LARGE AMOUNTS OF WATER. (INGEST) NEVER GIVE ANYTHING BY MOUTH TO INDUCE VOMITING TO AN UNCONSCIOUS DROWSY PERSON. OBTAIN MEDICAL ATTENTION IN ALL CASES.

### SECTION VII — Precautions for Safe Handling and Use

Steps if material Released / Spilled WEAR APPROPRIATE PROTECTIVE CLOTHING.

COLLECT WITH ABSORBENT MATERIAL AND PLACE IN APPROPRIATE LABELED CONTAINER FOR DISPOSAL.

PERMITTED FLUSH AREA WITH WATER.

Neutralizing Agent N / K

Diluted Glycols (Ethylene Glycol / Propylene Glycol)

10/23/07/07

Page 3 of 5

SECTION VII - Precautions for Safe Handling and Use (continued)

Waste Disposal Method DISPOSE OF LAW / FEDERAL. STATE AND LOCAL

REGULATION

DON'T DRINK MIXED GLYCOL / SOLUTION. AVOID EYE Handling and Storage Precautions

> AND PREPEATED SKIN CONTACT. AVOID BREATHING VAPOR / MISTS. DON'T STORE IN OPENED / UNLABLED

CONTAINERS.

Other Precautions KEEP AWAY FROM OPEN FLAMES / EXCESSIVE HEAT.

SPROPERLY CLEANED

SECTION VIII - Control Measures

IF TLV IS EXCEEDED, USE NIOSH APPROVED Respiratory protection

RESPIRATORY / ORGANIC VAPOR CARTRIDES AND

DUST / MIST PREFILTERS / SUPPLIED AIR RESPIRATOR

Ventilation USE GENERAL / LOCAL EXHAUST AS REQUIRED TO

MAINTAIN EXPOSURE BELOW TLV

**Protective Gloves** CHEMICAL RESTRANT: NEOPRENE / PVC

**Eye Protection** SPLASH - PROOF GOGGLES

Other Protective Equipment APPROPRIATE PROTECTIVE CLOTHING

Work Hygenic Practices REMOVE / LAUNDER CONTAMINATED CLOTHING

**BEFORE REUSE** 

SECTION IX - Label Data

YES **Protect Eve** Protect Skin **YES Protect Respiratory** YES **Chronic Indicator** YES **Contact Code SLIGHT** Fire Code **UNKNOWN** 

Health Code UNKNOWN React Code UNKNOWN

Specific Hazard and Precaution TARGET ORGANS: CENTRAL NERVOUS SYSTEM

- Transportation Data SECTION X

**Container Quantity** 55 gallons - 5,000 GL

Unit of Measure

SECTION XI – Site Specific / Reporting Information

Diluted Glycols (Ethylene Glycol / Propylene Glycol)

Page 4 of 5

10/23/07/07

Volatile Organic Compounds (P / G) 0 Volatile Organic Compounds (G / L) 0

## SECTION XII - Ingredients / Identity Information

Ingredient Nam	DILUTED GLYCOLS	ETHYLENE GLYCOL	/ PROPYLENE GLYCOL)
----------------	-----------------	-----------------	---------------------

CAS Number 107211/57556

Proprietary NO

Percent Ethylene Glycol (20-30%), Propylene Glycol (20-30%), Water (40-60%)

OSHA PEL 50 ppm

ACGIH TLV C 127 MG / CUM Recommended Limit 10 MG / CUM

Ingredient Name WATER

CAS Number 7732185
NIOSH Number ZC0110000
Proprietary NO
Percent 40-80%
OSHA PEL N / K

(ES 2485



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## **Material / Product Approval Letter**

Date 10/31/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2485

**Expiration Date** 10/23/2008

**Producer:** CES Environmental Services, Inc.

**Address:** 4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Non-Hazardous Fuel

**Container Type:** 

**Detailed Description of Process Generating or Producing the Material / Product:** 

Color: Light

**Odor:** Hydrocarbon

**pH:** 5-12

**Physical State:** 

**Incompatibilities:** see MSDS

Safety Related Data/Special Handling:

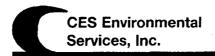
Std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Inf	ormation								
Company :	CES Environi	mental Sen	vices, Inc	•						
Address :	4904 Griggs	Rd 4904 G	riggs Roa	ad						
City, State, Zip :	Houston TX 7	77021								
Contact :	Matt Bowman	)				ТТ	itle :			
Phone No :	(713) 676-146	30				F	ax :			
24 / HR Phone :										
U.S EPA I.D No:	na									
State I.D :	na					s	IC Code na	<u> </u>		
SECTION 2: Billing	Information									
Company :	CES Environr	mental Serv	ices, Inc.							
Address :	4904 Griggs I	Rd 4904 G	riggs Roa	ad						
City, State, Zip:	Houston TX 7	7021						·		
Contact :						T	itle :			
Phone No:	(713) 676-146	60				F	ax:			
SECTION 3: Genera	al Description o	of the Materi	al / Produ	ct						
Name of Mateiral										
				Dl.		14-4- ui-l	/ Donalds at-			
Detailed Descript	tion of the Pro	cess Gen	erating o	r Proqu	icing the	i wateriai	/ Product:			
Physical State :	✓ Liquid	t	∭ SI	udge		Powd	er			
	Solid		Fil	lter Cake	•	Comb	ination			
Color :			Light		Od	or:		Hy	ydrocarbon	
Specific Gravity (	Water=1) :		.89		 De	nsity :		7-8	3	lbs / gal
	-						-			
Layers :	<b>✓</b> Single	e-Phas	l∭ Mi	ulti-Pha	se					
Container Type :	Drum		Tote		Truck	<b>O</b>	ther (explai	n)		
Container Size :									100	
Number Of Units		<del></del>								
ramber of offics	•									
Proper U.S. DOT	Shipping Nan	ne:			Non	-RCRA/No	on-DOT Reg	ulated Material	<u> </u>	
Class : na		UN/NA:	na			PG:	na	_	RQ:_	na
EL L B						10: 1				<del></del>
Flash Poin	t l	рН 5.13		Rea	ctive Su			e Cyanides	Sol	
>150		5-12			0	mg/l	0	mg/l		0
Oil and Grea	se	TOC			Zinc		Co	pper	Nic	
na	mg/l	na	mg/l		0	mg/l		0 mg/l	(	0 m

## **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Non-Hazardous Oils	70-80	%
Grease	20-30	%
CTION 5: Cofety Polated Date		
CTION 5: Safety Related Data		
he handling of this material / product requires the use of special protecti	ve equipment, please explain.	

SECTION 5: Safety Related Da	ata		<u></u>	
If the handling of this mate Std	erial / product requires the u	use of special proted	ctive equipment, p	lease explain.
SECTION 6: Attached Support	ting Documents			
	data, and/or analysis attach	ned to this form as p	art of the material	/ product profile.
SECTION 7: Incompatibilities  Please list all incompatibilities see MSDS	ities (if any):			
above and attached descri deliberate or willful omissi	r's Certification  herein is based on   gen ption is complete and accu ons of composition propert materials tested are repres	rate to the best of m ties exist and that al	y knowledge and a I known or suspec	ted hazards have been
Authorized Signature :	N/A	<b>Y</b>	Date :	10/23/2007
Printed Name / Title : not	t required /		<del></del>	
CES USE ONLY (DO NOT Compliance Officer: Pr	write in this space) rabhakar Thangudu Status: Approved	hwl J. A. Rejected	Make sure the flash, and high as	Facility Information : product has good BTU, high sh content. The product cannot blend with oil.
Approval Number :	2485			

# Non-Hazardous Fuels Constituent List

Various Used Oils:	50-75%
Tallow, Molasses, Waxes, Polyols:	5-15%
Glycols, Esters, Surfactants, Long Chain Alcohols:	5-15%
Amines, Amides, Polyamides:	5-15%
Inks and Dyes:	5-10%
Water:	0-50%

E. MATERIAL PHY	SICAL CHARACTEPISTIC	CS @ 70°F.		
# of Phases:	Color: Vanes	Flash Point:	°F (if < 73°F)	pH Liquids >20% H <sub>2</sub> O or pH Non-Aqueous
Liquid %: /00	Specific Gravity: 0,90-1.65	□ 73 - <100°F	□ 100 - 141°F	□≤2pH ★ > 2-4pH ★ > 4-10pH
Sludge %: ∠	Viscosity (cps): 4 400	¥142°F - <200°F	□ ≥200°F	<b>Z</b> >10-<12.5 pH □≥12.5 pH <b>3</b> -11
Solid %: 凗	Density: 8-8.5	Boiling Point (if < 130°.	F): N	BTU's / lb. or Range:
Powder %:	bs./gal. 🔲 lbs./cu. ft.	Ash%: Ni	>	10,000 - 15,000
Gas %: 4	Comments:			•
attachments or sup I agree that if the further testing and may be mended a	plements hereto is complete and sample test results indicate a di evaluation in accordance with th	accurate, and that all know screpancy with any inform e terms and conditions of t	n or suspected hazard nation supplied on th	omer that the information supplied on this form and on any rds of the material(s) described herein have been disclosed, his form, that either Energis or the generator may initiate Energis and the generator and that this profile certification  Z  / Y  O 6  Progress  Typed)  Date
<u>.</u>	<del> </del>			Revised 9/19/
Energis & Laboratory	Use Only PCS Code	e:		
Sales Rep. Name:	Kurt Volkmer	P	hone #:	1-639-8519 Facility:
EQ.10.012	· · · · · · · · · · · · · · · · · · ·	<u> </u>		

Page 2 of 2



1800 Dove Road Midlothian, TX 76065 Phone: (972) 923-5809, EPA ID# TXD130369481

February 28, 2006

Sean Easton CES Environmental Services 4904 Griggs Road Houston, Texas 77021

RE: Co-Processing at Midlothian, TX

Dear Mr. Easton:

Energis proposes to contract with CES Environmental Services for the receipt of non-hazardous liquid fuels at its Midlothian, Texas facility for energy recovery.

**Base Pricing** 

Base pricing for the non-hazardous liquid fuels (PQ-060223-002-A) will be \$.00/gallon (no cost)\* for fuel meeting the following parameters:

BTU > 10,000/lb, <15,000 Halogens < 1.5%

#### **Surcharge Pricing**

 BTU> 15,000/pound
 \$0.10/gallon paid to client

 BTU < 10,000 - >5000
 \$0.10/gallon paid to Energis

 BTU <5000 - >2000
 \$0.20/gallon paid to Energis

 Halogens > 1.5%
 subject to rejection

## **Transportation Services**

Available upon request.

#### Scheduling

- (A) Call Tammy Daniels at (662) 272-6024
- (B) Call Kurt Volkmer @ 281-639-8519

#### **Demurrage**

Due to the analytical requirements at the Midlothian, TX facility, Energis requires an unloading time of 2 hours for blended fuel loads. Energis assumes no responsibilities for transportation demurrage for off-spec loads or the time required resolving analytical or manifest discrepancies.

EQ.10.029 Version 1 Corporate



Phone 734 529 4368 www.energislic.com

## Memo

То:	CES Environmental Solutions
cc:	Kurt Volkmer
From:	Rebecca Trujillo
	Rebecca.trujillo@holcim.com
Date:	February 6, 2006
Subject:	Non Hazardous Fuel Blending Specification for
	Midlothian

Dear Mr. Easton,

Following is the fuel specification requirements for the Midlothian Non Hazardous liquid facility.

Receipt acceptance levels - English Units

Parameter	Limits	Units
Used Oil Content	>50	%
Heat value	>8,000	BTU/lb
PCB	< 10	PPM
Compatibility	< 5 rise	degrees F
Flash point	> 141(>105 for used oil)	degrees F
Water	< 50	%
Total Halogens	< 0.5	%
Ph	3-11	S.U.

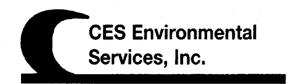
Viscosity	<400	cps
Arsenic	<100	ppm
Lead	<1000	ppm
Cadmium	<20	ppm
Beryllium	<10	ppm
Mercury	<0.250	ppm

Kind regards

Rebecca Trujillo

CES 2486 7 E 4 09 8-4-09 7 L RB





## **Material / Product Approval Letter**

Date 10/31/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2486

**Producer:** CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

## Material / Product Information

Name of Material / Product Polyethylene co-polymer Container Type:

### **Detailed Description of Process Generating or Producing the Material / Product:**

Polyethylene co-polymer from various customers.

Color: White to slightly yello Odor: None pH: na

**Physical State:** 

Incompatibilities: Oxidizers

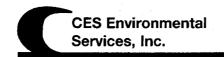
Safety Related Data/Special Handling:

see MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Informa	ition				
Company :	CES Environment	al Services, Inc.				
Address:	4904 Griggs Rd 4	1904 Griggs Roa	d			
City, State, Zip:	Houston TX 7702	1				
Contact :	Matt Bowman			Т	tle:	
Phone No:	(713) 676-1460			F	ax :	
24 / HR Phone :						
U.S EPA I.D No :	TXD008950461					
State I.D :	30900			s	IC Code	
SECTION 2: Billing	Information					
Company :	CES Environment	al Services, Inc.				
Address :	4904 Griggs Rd 4	**	d			
City, State, Zip :	Houston TX 7702					
Contact :	Matt Bowman			Ti	tle :	
Phone No :	(713) 676-1460			Fa	ax :	
	·					
	al Description of the					
Name of Mateiral	/ Product : Polyeti	nylene co-polym	er			
Detailed Descript	tion of the Proces	s Generating o	Producing the	Material .	/ Product:	
Polyethylene co-po	olymer from variou	s customers.				
Physical State :	Liquid	∭ Slu	ıdge	Powd	er	
	<b>✓</b> Solid	Fil	ter Cake	— ☐ Comb	ination	
	<u>v</u> cond	[2000]	·	Comb	mation	
Color :	e to si	ightly yellowish t	ranslucent p Odo	or:		None
Specific Gravity (	Water=1) :	na	Den	sity :		na lbs / gal
Layers :	✓ Single-Ph	as 🕠 Mu	ılti-Phase			
Layers .	▼ Omgie-i n		nu-i nasc			
Container Type :	Drum	Tote	Truck	<b>O</b> 1	ther (explain)	
Container Size :						
Number Of Units	•		_			
Proper U.S. DOT	Shipping Name :		Non-F	RCRA/No	n-DOT Regulated Mater	ial
Class: na	U	N/NA:na		PG:	na	RQ: na
Flash Poin	t	рН	Reactivesul	£`des	Reactive Granides	Solids
>350		na	na	, ,	na	100 %
Oil and Grea	se	TOC	Zinc		Copper	Nickel
na	mg/l	na mg/l	0	ma/l	0 ma	

COMPONENTS TABLE	Concentration South	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Ethylene viny alcohol copolymer (EVOH)	99.7-100	%
Water	0-0.3	%
ECTION 5: Safety Related Data		
the handling of this material / product requires the use of special protective	e equipment, please explain.	
ee MSDS		
	•	
ECTION 6: Attached Supporting Documents		
ist all documents, notes, data, and/or analysis attached to this form as part	of the material / product profile.	
SDS		
ECTION 7: Incompatibilities		
lease list all incompatibilities (if any):		
exidizers		
ECTION 8: Material Producer's Certification		
he information contained herein is based on ✓ generator knowledge and/o	or □ analytical data I bereby cer	ity that th
bove and attached description is complete and accurate to the best of my ki		
eliberate or willful omissions of composition properties exist and that all kn	own or suspected hazards have be	
isclosed. I certify that the materials tested are representative of all materials	s described by this document.	
[]		
	Date :10/23/2007	
uthorized Signature :		
rinted Name / Title : not required /	Date :10/23/2007	
rinted Name / Title : not required /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Date :10/23/2007  Special Pricing / Analytical In	
rinted Name / Title : not required /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Date: 10/23/2007  Special Pricing / Analytical International Code on into undicate on into	nd rept
Authorized Signature :	Date :10/23/2007  Special Pricing / Analytical In	nd rept
Authorized Signature:  Printed Name / Title: not required /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu Robban Mayd	Date: 10/23/2007  Special Pricing / Analytical Intermedicate on inhouse Whether pellets oz Stoza	nd rept
rinted Name / Title : not required /	Date: 10/23/2007  Special Pricing / Analytical International Code on into undicate on into	nd rept
rinted Name / Title: not required / EES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Prabhakar Thangudu Robban Mard	Date: 10/23/2007  Special Pricing / Analytical Intermedicate on inhouse Whether pellets oz Stoza	nd rept

## Noltex, L.L.C. **Material Safety Data Sheet**

**SOARNOL BG3522** 

**REVISIED DATE: 4/2/07** 

#### SECTION 1: MATERIAL IDENTIFICATION AND COMPANY IDENTIFICATION

PRODUCT NAME:

ETHYLENE VINYL ALCOHOL COPOLYMER

SYNONYMS:

SOARNOL BARRIER RESIN

CHEMICAL NAME:

**EVOH** 

MANUFACTURER:

Noltex L.L.C. 12220 Strang Road

LaPorte, TX 77571-9740

PRODUCT INFORMATION:

281-842-5000

CHEMTREC:

1-800-424-9300

MEDICAL EMERGENCY:

281-842-5035

#### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**INGREDIENTS** 

CAS Number

Ethylene Vinyl Alcohol Copolymer (EVOH)

26221-27-2

99.7 min

**REVISION: 2** 

7732-18-5

0.3 max

#### SECTION 3: HEALTH HAZARD INFORMATION

There is no information available to describe the human health effect by skin contact. However, based on experience with handling these polymers and others, which are similar chemically, no unusual dermatitis hazard is expected from routine handling. Skin contact with molten polymer will cause thermal burns. Eye contact is expected to cause no more than mechanical irritation. Polymer is not respirable as marketed. At processing temperatures (245 deg. C, 473 deg. F), fumes irritating to the eyes, nose and throat may be produced. This exposure may result in reddening, tearing and itching of the eyes and soreness in the nose and throat together with coughing. Ingestion is not a probable route of exposure. Toxicity by ingestion is predicted to be low (LD50 (oral, rat) is > 5,000 mg/kg; Feeding (oral, rat) 5% in diet no observable change due to Soarnol was observed).

#### CARCINOGENICITY

None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen. Soarnol is not mutagenic.

#### **EXPOSURE LIMITS**

TLV (ACGIH): None Established

PEL (OSHA) : None Established

#### SAFETY PRECAUTIONS

Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

## **SECTION 4: FIRST AID**

#### INHALATION

If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician.

#### SKIN CONTACT

Wash with soap and plenty of water.

If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for thermal burns.

#### EYE CONTACT

Irrigate with water for 15 minutes. Consult a physician.

Page 1 of 3

## Noltex, L.L.C. Material Safety Data Sheet

**SOARNOL BG3522** 

**REVISIED DATE: 4/2/07** 

#### **SECTION 5: FIRE AND EXPLOSION DATA**

The solid polymer can be combusted only with difficulty. Under fire conditions, SOARNOL may decompose to form a flammable and/or explosive mixture in air.

#### FIRE AND EXPLOSION HAZARDS

Complete combustion gives carbon dioxide and water.

Incomplete combustion gives carbon monoxide and hydrocarbon oxidation products including organic acids, aldehydes and alcohols.

#### **EXTINGUISHING MEDIA**

Water, Foam, Dry Chemical, CO2

#### SPECIAL FIRE FIGHTING INSTRUCTIONS

Keep personnel removed & upwind of fire. Wear self-containing breathing apparatus. Wear full protective equipment.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Note: Review FIRE AND EXPLOSION HAZARDS AND SAFETY PRECAUTIONS before proceeding with clean up.

Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Pick up spilled polymer to avoid slipping hazard.

#### **SECTION 7: HANDLING AND STORAGE**

Store in cool, dry place.

Keep containers and packages closed to prevent contamination.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

### GENERALLY APPLICABLE CONTROL MEASURES AND PRECAUTIONS

Local exhaust ventilation should be used over processing equipment.

#### PERSONAL PROTECTIVE EQUIPMENT

Eye/Face

: Safety Glasses.

Respirator

: Not required if ventilation is adequate.

Additional

: Protective gloves and long sleeve shirt should be worn when handling hot polymer.

#### SECTION 9: PHYSICAL DATA AND CHEMICAL PROPERTIES

Appearance:

White to slightly yellowish translucent pellet

Odor:

Odorless Not relevant

Boiling point:

150 - 200° C (302-392°F)

Melting point: Flash point:

More than  $200^{\circ}$ C (392°F)

Ignition point:

 $500^{\circ}\text{C} (932^{\circ}\text{F})$ 

Explosive properties: Oxidizing properties:

None None

Bulk Density: Relative Density:

0.64 - 0.74 1.12 - 1.24

Solubility:

Soluble - Water-Alcohol Mixed Solvent, DMSO

Insoluble - Water, Ethyl acetate, Benzene, Toluene, MIBK

## Noltex, L.L.C. Material Safety Data Sheet

**SOARNOL BG3522** 

**REVISIED DATE: 4/2/07** 

#### SECTION 10: STABILITY AND HAZARDOUS REACTIVITY

INSTABILITY:

Stable at room temperature. Avoid temperature above 245 deg. C (473 deg. F)

INCOMPATIBILITY:

Strong oxidizing material.

DECOMPOSITION:

Hazardous gases/vapors produced are carbon monoxide and hydrocarbon oxidation products

including organic acids, aldehydes and alcohols. Begins at 250°C (482°F)

POLYMERIZATION:

Polymerization will not occur.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**AQUATIC TOXICITY** 

Toxicity is expected to be low based on the polymer's negligible water solubility.

### **SECTION 12: ECOLOGICAL INFORMATION**

N/A

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL

Treatment, storage, transportation and disposal must be in accordance with applicable Federal,

State/Provincial, and Local regulations.

Incinerate or landfill.

#### **SECTION 14: TRANSPORT INFORMATION**

DOT P

Proper Shipping Name: Not Regulated by DOT

#### **SECTION 15: REGULATORY INFORMATION**

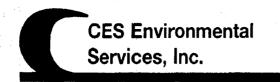
N/A

#### **SECTION 16: ADDITIONAL INFORMATION**

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS Noltex L.L.C. 12220 Strang Road LaPorte, TX 77571-9740

Safety Department 281-842-5034



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## **Material / Product Approval Letter**

Date 10/1/2007

Dear Sam Holcomb (Big)

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2466

Producer: Holcomb Environmental

Address: 3540 Corder

Houston, TX 77022

## Material / Product Information

Name of Material / Product Recyclable hydrocarbons Container Type:

### Detailed Description of Process Generating or Producing the Material / Product:

Light crude oil w/slight water from barge cleaning. Crude cutter was biodiesel.

Color: black

Odor: hydrocarbon

pH: na

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

PPE for flammable liquid

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

## **CES Environmental** Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

	U.S. EPA	ID No: TXD008950	0461 ISWR	No: 30900
SECTION 1. Motor	ial Producer Informati		•	
Company:	Holcomb Environmen			
Address:	3540 Corder			
City, State, Zip:	Houston, TX 77022			,
Contact:	Sam Holcomb (Big Sa	m)	Title:	Owner
Phone No:	713-440-3090		Fax No:	281-931-5089
24/hr Phone:	832-443-3819		Pax 110.	201 /31 300/
U.S. EPA I.D. No:	TXCESQG			
State I.D.	CESQG		SIC Code:	
State 1.15.	CLDQC		510 0000.	
SECTION 2: Billing	Information – 🔀 Sam	e as Above		•
Company:				
Address:				
City, State, Zip:				
Contact:	•	Title:	`	
Phone No:		Fax No:		
<del>-</del>		·		
SECTION 3: General	al Description of the M	aterial / Product		
<b>Detailed Description</b> <u>Cleaning. Crude Cutte</u>	er was biodiesel.	or Producing the Ma		Light Crude Oil w/slight water from Barge
Physical State:	<ul><li>☑ Liquid</li><li>☐ Solid</li></ul>	☐ Sludge ☐ Filter Cake	<ul><li>☐ Powder</li><li>☐ Combination</li></ul>	n
	Solid	_ Filter Cake	Combination	
Color: Black	Odo	r: <u>Hydrocarbon</u>		
Specific Gravity (wat	er=1): $\frac{-\hat{x}}{2}$	Density: 7-8 lbs/gal		
Layers:	☐ Single-phase	Multi-phase		
Container Type:	☐ Drum ☐	Tote	⊠ Truck	Other (explain)
Container Size:			3-6000	(
Container Size.	*****************		<u>5-0000</u>	
_	r1 r-	7		· ·
Frequency:	☐ Weekly ☐	] Monthly	<b>Quarterly</b>	✓ Yearly
Number of Units (cor	tainers): <u>5000-250,00</u>	00 gals	Other:	
Proper U.S. DOT Shi	pping Name:	Flammable Liquids	, NOS	
Class: 3	UN/NA:	1993	PG: II	RQ:
10			-	F V 7 - 4
Tall and the state of	TT ST	A	T NT/A	CIL
Flash Point 79	pH N/.	A	N/A	Solids 0%

Oil&Grease	TOC	Zinc	Copper	Nickel
Highmg/I	<5000mg/l	<u>0</u> mg/l	<u>0</u> mg/l	Omg/l

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units	
The material / product consists of the following materials	Ranges are acceptable	or %	
Light End Crude Oil	60-97	%	
Biodiesel	3-10	%	
Water	2-40	%	

#### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain. PPE for Flammable Liquid

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. Sample

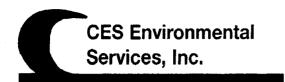
#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): Oxidizers

#### **SECTION 8: Material Producer's Certification**

attached description is complete and ac	accurate to the best of my knowledge and abi	ytical data. I hereby certify that the above and lity to determine that no deliberate or willful use been disclosed. I certify that the materials
tested are representative of all materials of		•
Authorized Signature:	1/A	Date: 10/11/07

Authorized Signature:	Date: 10/11/07
Printed Name/Title: No Signature Required	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Date: 10-12-07 Approved Rejected  Approval Number: 2166	Process Facility Information: Light Ends Need Weight empty and full 10% Water Free Charge.08/gal for each gallon over 10% Pay .21/gallon for net weight Oil Flash will be low- Check TOC on water
Approval Number: 2/+66	Chlor-d-tect EEC



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 10/1/2007

Dear Sam Holcomb (Big )

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2466

Producer: Holcomb Environmental

Address: 3540 Corder

Houston, TX 77022

#### Material / Product Information

Name of Material / Product Recyclable hydrocarbons Container Type:

#### **Detailed Description of Process Generating or Producing the Material / Product:**

Light crude oil w/slight water from barge cleaning. Crude cutter was biodiesel.

Color: black

Odor: hydrocarbon

pH: na

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

PPE for flammable liquid

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900



SECTION 1: Mater	ial Producer Inform	nation			
Company:	Holcomb Environ				
Address:	3540 Corder				
City, State, Zip:	Houston, TX 7702	22			
Contact:	Sam Holcomb (Bi	g Sam)	Tit	le:	Owner
Phone No:	713-440-3090		Fa:	x No:	281-931-5089
24/hr Phone:	832-443-3819			_	
U.S. EPA I.D. No:	TXCESQG				
State I.D.	CESQG		SIC	C Code:	
SECTION 2: Billing	Information – 🛛	Same as Above			
Company:					
Address:					
City, State, Zip:	<u> </u>				
Contact:			Title:		
Phone No:			Fax No:		
SECTION 3: Gener	al Description of th	e Material / Proc	<u>duct</u>		
Name of Material / I Detailed Description Cleaning. Crude Cutt	of Process General		g the Material / ]	Product: <u>L</u>	ight Crude Oil w/ slight water from Barge
Physical State:	⊠ Liquid □ Solid	☐ Sludge ☐ Filter Cal		owder ombination	
Color: Black	•	Odor: <u>Hydrocarb</u>	<u>on</u>		
Specific Gravity (wa	ter=1): <u>-8 -</u> - 9	Density: 7-	∑ lbs/gal		
Layers:	☐ Single-phase	⊠ Mul	ti-phase		
Container Type:	☐ Drum	☐ Tote	r 🛚	ruck	Other (explain)
Container Size:	_	_		3-6000	\ <b>1</b> /
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			_		<del></del>
<b></b>		□ 36 (I)			<b>√</b>
Frequency:	<del>-</del>	☐ Monthly		Quarterly	✓ Yearly
Number of Units (co	ntainers): <u>5000-25</u>	0,000 gals	Other:	:	
Proper U.S. DOT Sh	ipping Name:	Flammabl	e Liquids, NOS		
Class: 3	UN/N	A: 1993	I	PG: II	RQ: NA
Flash Point	pΗ	N/A	N	J/A	Solids

Oil&Grease	TOC	Zinc	Copper	Nickel	
<u>High</u> mg/I	<5000mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	
<b>SECTION 4: Phy</b>	sical and Chemical Dat	<u>a</u>			
	COMPONENTS			Concentration	Units
The mate	erial / product consists o	of the following mater	rials	Ranges are acceptable	or %
Light End Crude	Oil		_	60-97	%
Biodiesel				3-10	%
Water				2-40	%
			_	···	
SECTION 5: Safe	ety Related Data				
	<del></del> -				_
PPE for Flammable		requires the use of s	peciai protecti	ve equipment, please explai	<b>1.</b>
11 25 TOT I TATITITATE	<u>s Diquiu</u>				
SECTION 6: Att	ached Supporting Docu	ments			
List all documents	s, notes, data, and/or an	alysis attached to this	s form as part	of the material / product pr	ofile.
<u>Sample</u>					
SECTION 7: Inc	omnatihilities				
	<del></del>				
Oxidizers	mpatibilities (if any):				
<u>OXIGIZOIS</u>					
SECTION 8: Ma	terial Producer's Certif	<u>ication</u>			
The information co	ontained herein is based	on $\square$ generator know	ledge and/or □	] analytical data. I hereby c	ertify that the above a
attached description	on is complete and accur	rate to the best of my	y knowledge a	nd ability to determine that	no deliberate or will
				rds have been disclosed. I	certify that the materi
tested are represent	tative of all materials desc	cribed by this docume	nt.		
Authorized Signa	turnos !			Date: 10/11/07	
Authorized Signa	ture:			Date. 10/11/01	
Printed Name/Tit	le: No Signature Requir	red			_
		<u>-</u>			
CESTISE ONLY (DO	NOT WRITE IN THIS SPACE	<u> </u>	<del>                                     </del>		
CES USE ONL! (DO		A.	Process Fac	ility Information: Light End	ls
Technical Manager	r: Kerbherrik/ba	med		t empty and full	
	~· <b>7</b>	and the state of t	10% Water	Free	
Date: 10-12-6	27 Appro	oved Rejected		al for each gallon over 10%	
	Manager Commence of the	and the second		on for net weight Oil	
Approval Number:	2466		Flash will be Chlor-d-tect	e low- Check TOC on water	
. LUDIU TUI I TUIIIUUI.					

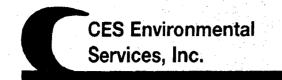
Chlor-d-tect

REC

2466

Approval Number: \_

GATX (Hearne) 2467



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

**pH:** 1.82

# **Material / Product Approval Letter**

Date 10/1/2007

Dear Ricardo Salias

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2467

**Producer:** GATX (Hearne)

Address: 1401 W. Brown St.

Hearne, TX 77859

#### Material / Product Information

Name of Material / Product Ferric chloride product Container Type:

#### Detailed Description of Process Generating or Producing the Material / Product:

Removal of heel from rail cars prior to cleaning

Color: dark Odor: slight

Physical State:

**Incompatibilities:** allyl chloride, metals **Safety Related Data/Special Handling:** 

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 1021

Phone: (713) 676-1460

Fax: (713) 675 (676

attp://www.cesenvironmental.com

TCEQ industrial Solid Waste Permit No: 3048
U.S. EPA ID No: TXD008950461 ISWR No: 3090

	U.S. EPA I	D No: TXD008950461	ISWR No.	30900	
SECTION 1: Gene	rator Information				
Company:	GATX Rail (Hearne)		<b>.</b>		
Address:	1401 W. Brown Street	O Box 969			
Clty, State, Zip:	Hearne, TX 77859				
Contact:	Ricardo Salias	Т	itle:		
Phone No:	979-279-3481			-279-5664	
24/hr Phone:					
U.S. EPA L.D. No:	TXD000835207		T.	,	
State LD.	32643	S	C Code: 14		
	~		<b></b>		
SECTION 2: Billin	g Information – 🛛 Same	as Above			
Company:			i i		<u> </u>
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No:	12,		
SECTION 3: Gener	al Description of the Wa	ste-Product			
Name of Waste: Fer			111 1111		4
<b>Detailed Description</b>	of Process Generating V	Vaste: Removal of heel fro	m rail cars prior	o cleaning	
	_	_			
Physical State:	∠ Liquid     ∠	Sludge 🔲 F	Powder ·		
	Solid	Filter Cake 🔲 (	Combination		
			[.		
Color: <u>dark</u>	Odor	<u>slight</u>			1. 1.
•					
Specific Gravity (wa	ter=1): <u>1.37-1.46</u> D	ensity:/0 1/ Ibs/gal			
- '	,				
Layers:	⊠ Single-phase	Multi-phase	Ç.		
Container Type:	Drum 🗆	Tote 🔲	Truck	☐ Other (e	(nlain)
Container Size:	55 gel		Tidek	, Julio (0	
Container Size:	22 Hai			· ——	
₹			÷. (		
Frequency:	☐ Weekly ☐	Monthly 🛛	Quarterly	☐ Yearly	
Number of Units (co	ntainers): 5	Other:			
Texas State Waste C	. —	1			
Proper U.S. DOT Sh		Ferric Chloride Solution	·		
_					
Class: 8	UN/NA:	UN2582	PG: III	, N	<b>?</b> : /// //
				: :	
Flash Point	nU Dag	ctive Sulfides	Reactive Cyani	es Solle	
225	pH   Res   1.82   Om		Meactive Cyamin Omg/l	es Solle	
Oil&Grease	TOC	1——————————————————————————————————————	pper	Nickel	
Omg/l	Omg/E	Omg/l Om		Qmg/l	
		1.00			
- Marine		Comments of the comments of th	- The state of the		
1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- Andreas	1			#

#### **SECTION 4: Physical and Chemical Data**

9792793020

		OMPON	ENTS TA	BLE				6	eentration	Units
	The waste					rials		Range	are acceptable	or %
Ferric Chloric	de		- 1					35-45		%
Hydrochloric	Acid				:	4	**	<0.5		%
Water						1,		55-65		%
						. :				
									4	
					·			*	+	

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please as standard

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waite approval pacifige.

MSDS

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): allyl chloride, metals,

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PARFORMED balled upon the following generator knowledge:

X
X
X
$\mathbf{X}$
<u>X</u>
X

Authorized Signature:

#### **SECTION 9:** Generator's Certification

The information contained herein is based on [3] generator knowledge and/or [3] analytical data. I hereby critify that the above an attached description is complete and accurate to the best of my knowledge and ability to determine the no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have then disclosed. I tertify that the material tested are representative of all materials described by this document.

Printed Name/Title: Ricardo Salias		-
CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: A A A A A A A A A A A A A A A A A A A	Process Facility Information:	
Date: 10-12-07 (Approved) = 1	Rejected Products	
		<u> </u>

10/11/7

# Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

9792793020

		The state of the s	
(1)	If the waste contains oil and grease at o	r in excess of 100 mg/L, the waste should to classified in the	pils subcategory.
(2)		than 100 mg/L, and has any of the pollutar slisted below in ould be classified in the metals subcategory	oncentrations in excess
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L		
(3)		than 100 mg/L, and does not have concern ations of cadmin ove, the waste should be classified in the officianics subcatego.	
	Metals Subcategory		
	Oils Subcategory		

#### SECTION 11: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data to the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance The generator will be responsible for the last of the analysis

0127-08

#### MATERIAL SAFETY DATA SHEET FERRIC CHLORIDE SOLUTION

KEMIRON PACIFIC,

14000 San Bernardino

Ave.

Fontana, CA 92335

(909) 429 4001

(800) 527 7457

Emergency Phone

Number:

(800) 527 7457

CHEMTREC

(800) 424 9300



#### PRODUCT INFORMATION

Chemical Formula:

Synonyms:

Ferric trichloride; ferric perchloride; iron perchloride;

iron trichloride; iron (III) chloride; flores martis.

Molecular Weight:

CAS No.:

162.21 7705-08-0

NIOSH RTECS No.:

LJ9100000

FeCl<sub>3</sub>

Chemical Family:

Iron Salts

#### PHYSICAL PROPERTIES

**Boiling Point:** 

225°F

Freezing Point:

10°F at 40% FeCIs (concentration dependent)

Specific Gravity (H2O):

1.37-1.46

No Data

Vapor Pressure (mmHg):

Solubility in H2O:

No Data

Completely Soluble

**Evaporation Rate** 

(Butyl Acetate = 1):

Flashpoint:

Not Applicable <1

pH (apparent):

pH (1% solution):

1.82

Appearance:

Dark reddish-brown color with an oily texture

Odor:

Slight, mild odor

#### III. **INGREDIENTS**

Components

Ferric Chloride (FeCl<sub>3</sub>)

Hydrochloric Acid (HCI)

Water

CAS#

**ACGIH TLV Exposure Limit** 35-45

7647-01-0

7705-08-0 < 0.50 7732-18-5

55-65

5 ppm

None established

1 mg/m<sup>3</sup>

#### MSDS FeCI3, Page 2 of 5

#### IV. HEALTH HAZARD INFORMATION

A. **Toxicity:** ori-mus LD<sub>50</sub>: 895 mg/kg orl-rat LDLo: 900 mg/kg ivn-mus LD<sub>50</sub>: 58 mg/kg ivn-rat TDLo: 2580 mg/kg ivg-rat TDLo: 29 mg/kg

Mutagenic Data Cited

B. Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA, ACGIH, or NIOSH.

C. Primary Route(s) of Entry: Skin contact, ingestion

D. Exposure/Health Effects:

1. Inhalation – Minimal risk due to low vapor pressure. Product mists are irritating to mucous membranes, respiratory tract, and lung tissues. Altered respiratory rates may occur.

- 2. Ingestion Low toxicity in small quantities, but larger doses (30 mg/kg) may cause stomach initation which results in nausea, vomiting, and diarrhea. Mucous membranes and the gastrointestinal tract may also be burned. Pink urine discoloration is a strong indicator of iron poisoning. Liver cirrhosis, fibrosis of the pancreas, coma, and death may follow.
- 3. Sidn Prolonged contact may cause irritation with an accompanying blistering and staining. Highly and instantaneously toxic when injected into the bloodstream.
- 4. Eyes Very corrosive to the eyes. May cause burns or severe initation to the mucous membrane lining of the inner surfaces of the eyelids.

#### E. First Ald Measures

- Inhalation Remove from affected area and give oxygen/artificial respiration if needed. Seek medical attention for any breathing problems.
- 2. Ingestion If victim is conscious, have drink large quantities of water or milk to reduce concentration and neutralize acid. Do not induce vomiting. If victim is unconscious, do nothing and keep victim warm. Seek medical attention immediately.
- 3. **Skin** Remove contaminated clothing. Thoroughly wash affected areas with plenty of soap and water. Flush skin with water for 15 minutes. If irritation persists, seek medical attention.
- 4. Eyes Immediately flush eyes with copious amounts of water for at least 15 minutes, occasionally lifting lower and upper eyelids. Seek medical attention immediately.

#### V. REACTIVITY DATA

A. Stability - Stable under normal conditions of use.

#### MSDS FeCi3, Page 3 of 5

- B. incompatibility Forms shock sensitive explosive mixtures with some metals (potassium, sodium). Reacts violently with allyl chloride. May generate hydrogen gas on contact with metals. Corrosive to stainless steel, mild steel, bronze, Iron, aluminum, copper, and concrete.
- C. Hazardous Polymerization This material does not polymerize.

  However, it will catalyze the potentially explosive polymerization of ethylene oxide, chlorine, & monomers (e.g. styrene).
- D. **Decomposition Products** Does not decompose under normal conditions of use. When heated to high temperatures, decomposition occurs and produces highly toxic fumes of HCl and iron oxides.
- E. Conditions to Avoid Open flames. Avoid forming product mists.

#### VI. FIRE AND EXPLOSION

- A. Fire Not considered a fire hazard.
- B. Explosion Not considered an explosion hazard.
- C. Fire Extinguishing Media Water, CO<sub>2</sub>, or dry chemicals may be used.
- D. **Precautions** At high temperatures, decomposition causes toxic HCl and iron oxide fumes. Wear a respirator with appropriate cartridges or a self-contained breathing apparatus (SCBA).

#### VII. PERSONAL PROTECTIVE GEAR

- A. Eye and Face Use chemical safety goggles. Maintain eye wash fountains in work area.
- B. Respiratory If Threshold Limit Value (TLV) is exceeded, a dust/mist respirator (NIOSH approved) may be worn up to ten times the TLV. Alternatively, a supplied air full facepiece respirator or SCBA may be worn.
- C. **Skin** Rubber or neoprene gloves should be worn when handling. A rubber apron can also be used.
- D. **Shoes** Leather deteriorates quickly. Safety shoes with rubber soles or rubber boots should be worn.

#### VIII. STORAGE AND HANDLING

Ferric chloride is very corrosive to stainless steel, mild steel, branze, iron, aluminum, and concrete. No metal, except for titanium and rubber-lined metals, should come into contact with the material. Storage tanks may be rubber- or PVC-lined. In addition, various plastics (e.g. PE, PVC, CPVC, FRP, Teflon) can be safely used. Appropriate protective gear should be worn when handling the material.

#### MSDS FeCI3, Page 4 of 5

#### SHIPPING INFORMATION ·IX.

DOT Shipping Name: DOT Hazard Class:

Ferric Chloride Solution

Corrosive Material

DOT Category: DOT Placard:

ORM-B

UN 2582

Packing Group:

 $\|$ 

#### MSDS FeCI3, Page 5 of 5

Reportable Quantity

(RQ], (b.:

1,000

HMIS:

Personal Protective Code - B (Safety glasses, rubber

gloves)

NFPA Rating:

2 (Health) - 0 (Flammability) - 0 (Reactivity)

ERG #:

154

#### X. ENVIRONMENTAL PROTECTION PROCEDURE

- A. Spill Response If possible, dike area of spill. Neutralize with lime, soda ash, or sodium bicarbonate. If the spill is equal to or in excess of the RQ (1.000 lbs), then the National Response Center (800 424 8802) and the appropriate state and local agencies must be immediately notified.
- B. Waste Disposal Remove waste to an approved landfill or waste disposal facility. The treatment, storage, transportation, and disposal of waste material must be conducted in compliance with all applicable federal, state, and local regulations.

Prepared by: Fred D. Sims, Jr.

Effective Date:

05 May 2000

Revisions:

The information presented in this Material Safety Data Sheet (MSDS) is subject to revisions and is not all-inclusive, but represented as the best information available to date. This information was drawn from recognized sources believed to be reliable. Kemiron makes no representation as to the comprehensiveness or accuracy of the information. Consequently, Kemiron will not be responsible for damages of any kind resulting from the use of or reliance upon such information.

The product discussed is sold without warranty, expressed or implied, and upon condition that purchasers shall perform their own verification and testing to determine its suitability for a particular purpose.

This MSDS was prepared in accordance with OSHA's Hazard Communication Standard 29 CFR 1910,1200



# Material / Product Approval Letter

Date 10/12/2007

Dear Jan McClain

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2468

**Producer:** Lubrizol - Bayport

Address: 12801 Bay Area Blvd. (Attn: Frank Hejtmanek)

Pasadena, TX 77507

#### Material / Product Information

Name of Material / Product DPA, DIB, and unreacted 0406.8 Container Type:

#### Detailed Description of Process Generating or Producing the Material / Product:

Mixture of unused 2,4,4-trimethyl pentene 1&2 and alkylated diphenylamine in rail cars.

Color: clear to dark

Odor: hydrocarbon

pH: na

**Physical State:** 

Incompatibilities: see MSDS

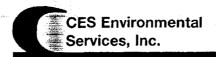
Safety Related Data/Special Handling:

see MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Materi	al Producer Infor	rmation							
Company :	Lubrizol - Bayp	ort					<u>.</u>		.:
Address :	12801 Bay Are	a Blvd. (Attn: Frank	Hejtmanel	k) 12801 Bay	Area Blvd				
City, State, Zip:	Pasadena TX	77507							
Contact:	Jan McClain	4		7	itle :				
Phone No:	(832) 260-760	1		F	ax:	(832) 260-7604			
24 / HR Phone:							-		
U.S EPA I.D No:	na								
State I.D :	na			S	SIC Code	na			
SECTION 2: Billing	Information	·							
Company :	Lubrizol - Bayp	oort							
Address :	12801 Bay Are	a Blvd. (Attn: Frank	Hejtmanel	() 12801 Bay	Area Blvd	•			*
City, State, Zip:	Pasadena TX 7	77507							
Contact:	Jan McClain			Т	itle :				
Phone No:	(832) 260-7601	1		F	ax :	(832) 260-7604			
		1.32							
		the Material / Produ		*					
Name of Mateiral	I / Product :DP/	A, DIB, and unreact	ed 0406.8						
<b>Detailed Descrip</b>	tion of the Proc	cess Generating o	r Producin	g the Material	/ Produc	t:	3 - 1 32 - 1 - 2		
Mixture of unused	2,4,4-trimethyl	pentene 1&2 and a	kylated dip	henylamine in	rail cars.				
Physical State:	<b>✓</b> Liquid	Sin Sin	ıdge	Powe	lor				
Physical State:	<del></del>	:	_						
	Solid	Fil	ter Cake	I ComI	bination				
Color:		clear to da	rk	_Odor :		hy	ydrocarbon		
Specific Gravity	(Water=1) :	.7-1		_ Density :		7-8	3	lbs /	/ gal
Layers :	Single-	-Phas ✓ Mı	ulti-Phase						
				•					
Container Type :	Drum	Tote	<b>✓</b> T	ruck 📳 C	ther (exp	olain)	·		
Container Size :		<u> </u>		· · · · · · · · · · · · · · · · · · ·					
Number Of Units	: 2								
Proper U.S. DOT	Shipping Nam	e :		Flammable Liq	uids, n.o.s	s., UN 1993, PG I	ii	· .	·
Class: 3		UN/NA: 17/199	3	PG:	711	<u> </u>	RQ:	ار. الم	A
Flash Poir	nt	рН	React:	ve Sulfides	Revi	tive (yanida	Sc	olids	
<140	_   _	na	: 	16		na		0	%
Oil and Grea	ase	тос		Zinc		Copper	Ni	ckel	
		no	· · · · · · · · · · · · · · · · · · ·			no no-#			

SECTION 4: Physical and Chemical Data	-				A complete
COMPONENTS TABLE		Con	centration		Units
The material / product consists of the following materia	S	Ranges	are acceptable		or%
2,4,4-Trimethylpentene 182	A Price Control of the Control of th		0-100		%
alkylated diphenylamine	The second of th	· · · · · · · · · · · · · · · · · · ·	0-100		% <u>-</u>
	<del>-</del>				
· · · · · · · · · · · · · · · · · · ·					
SECTION 5: Safety Related Data	± 11				
If the handling of this material / product requires the use of specia	 Il protective ea	uinment nle	ase explain		
see MSDS	- Protective eq	aipinoni, pio	acc explain.		
and the second s					
SECTION 6: Attached Supporting Documents					
	·····	a motorial /	nuadust nuafila		
List all documents, notes, data, and/or analysis attached to this fo MSDS's	rm as part or th	ie materiai /	product prome.		
MODO 9					
SECTION 7: Incompatibilities					
Please list all incompatibilities (if any): see MSDS					
See MSDS					
SECTION 8: Material Producer's Certification		÷			
The information contained herein is based on ✓ generator know	ledge and/or	analytical	idata. I hereby	cerity	that the
above and attached description is complete and accurate to the be	est of my knowl	edge and at	oility to determin	e that	
deliberate or willful omissions of composition properties exist and				been	
disclosed. I certify that the materials tested are representative of a	ill materials de	scribed by ti	nis document.		
Authorized Cimetum					1 334.35
Authorized Signature : W		Date :	10/12/2007		
Printed Name / Title: not required /		* * * * * * * * * * * * * * * * * * *			
CES USE ONLY (DO NOT WRITE IN THIS SPACE)		Special Pri	cing / Analytical	Info:	
Belden Than	2	Produc	t-for firel.	blen	diro-
Compliance Officer: Prabhakar Thangudb Compliance		Alch	to far firet with Moth of	G d	.t. 1
	· .	CNUIC	weigh weather	02 CR	. <b>क</b> ∉ ( पी_

Status:

Approved

2468

Rejected

**Approval Number:** 

Date:

10/12/2007

**Recommended Treatment:** 

B

Lubrizol

need Sx

Material Safety Data Sheet DIB

Prepared according to 29CFR 1910.1200.

A SECTION OF THE PROPERTY OF T

From:

09/11/2007 20:34

#364 P. 0047018

(b) (4)

09/11/2007 20:34 #364 P 008/018

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**Material Safety Data Sheet** 0406.8C

Prepared according to 29CFR 1910.1200.

**Chemical Product and Company Identification** 

The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092 Tel: (440) 943-4200

This material is to be used for research purposes only under the supervision of a technically qualified individual. The toxicological properties may have not been completely characterized. To determine your responsibilities under the Toxic Substances Control Act (TSCA), please see the Regulatory Information Section. If this material has been supplied to you under the terms of a secrecy or nonanalysis agreement, the information included in this MSDS is hereby identified as "Confidential Information."

**Product Trade Name** 

0406.8C

**CAS Number** 

Unknown.

**Synonyms** 

None.

**Generic Chemical** 

Name

Alkylated diphenylamine

**Product Type** 

Not applicable.

Preparation/Revision

Date

05 October 2006

**Transportation** 

**Emergency Phone No.** 

14286070-5401320-0116610-811103

MSDS No.

### **Hazards Identification**

**Appearance** 

Dark liquid.

Odor

2

Mild

**Principal Hazards** 

DANGER.

 FLAMMABLE LIQUID. MAY CREATE A FLASH FIRE HAZARD.

(CHEMTREC) 1-800-424-9300. Outside the U.S. (703) 527-3887

- HARMFUL IF INHALED.
- HARMFUL IF ABSORBED THROUGH SKIN.
- MAY CAUSE EYE IRRITATION.
- MAY CAUSE CHRONIC HEALTH EFFECTS. BASED ON

http://msds/Search/DisplayMsds.aspx

9/12/2007

#### DATA WITH LABORATORY ANIMALS.

Target Organs:

Blood, Kidney, Liver

This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

See Section 11 for complete health hazard information.

3 Composition/Information on Ingredients	·
------------------------------------------	---

#### **Hazardous Ingredients**

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Alkylated diphenylamine	Confidential.	From 10 to 100 percent	N/E
Diphenylamine	122-39-4	From 0 to 10.0 percent	N/E

#### (N/E) - None established

4	First Aid Measures			
Eyes	Flush immediately with water for at least 15 minutes. Get immediate attention.	medical		
Skin Wash with soap and water. Immediately remove contaminated clot medical attention if irritation develops. Launder contaminated clotl reuse.				
Inhalation	Remove exposed person to fresh air if adverse effects are observed. I breathing is labored, administer oxygen. If breathing has stopped, appartificial respiration. If irritation persists or if toxic symptoms are observed medical attention.	ply		
Oral	DO NOT INDUCE VOMITING. Get immediate medical attention.			
Additional Information	Note to physician: Treat symptomatically.			

5	Fire Fighting Measures
Flash Point	27 °C, 80.6 °F PMCC (Typical)
Extinguishing Media	CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedure	s Recommend wearing self-contained breathing apparatus. Water may cause splattering.
Unusual Fire & Explosion Hazards	Toxic fumes, gases or vapors may evolve on burning. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating.
6	Accidental Release Measures

May form explosive mixture with air. Immediately evacuate all personnel from danger area. Personal Fotective Equipment must be worn, see Personal Protection Section for PPE recommendations. Eliminate all sources of heat, sparks pilot lights, static electricity and open flames. Ventilate spill area. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal if can be accomplished safely with explosion proof equipment. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

Handling and Storage

Pumping Temperature Not determined.

**Maximum Handling Temperature** 

Not determined.

**Handling Procedures** 

Keep material away from heat, sparks, pilot lights, static electricity and open flame. Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Static ignition hazard can result from handling and use. Electrically bond and ground all containers and equipment before transfer or use of material. Wash thoroughly after handling. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.

**Maximum Storage** 

**Temperature** 

Not determined.

**Storage Procedures** 

Do not store near potential sources of ignition. Isolated outside storage is preferred. Inside storage area should be in a flammable liquids cabinet or

storage area.

**Loading Temperature** 

Not determined.

8	Exposure Controls/Personal Protection
- 'v	A

#### **Exposure Limits**

	Exposure Guidelines					
	OSHA		ACGIH		Other	
Comp	TWA	STEL	TWA	STEL	TWA	STEL
Diphenylamine	N/E	N/E	10 mg/cu. M	N/E	N/E	N/E

- (s) Skin exposure
- (p) Proposed limit
- (c) Ceiling exposure
- (1) Recommended exposure limit
- (u) Supplier recommended exposure limit

(N/E) - None established

Other Exposure Limits None known.

**Engineering Controls** 

Use local exhaust ventilation to control mists or vapors. Additional

0406.8C Page 4 of 9

ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits. Use explosion proof equipment.

Gloves Procedures Use nitrile or neoprene gloves.

Eye Protection Safety glasses. If potential for splash or mist exists, wear chemical goggles or

faceshield.

Respiratory Protection Use NIOSH/MSHA approved full face respirator with a combination organic

vapor and dust/mist cartridge if the recommended exposure limit is exceeded.

Use self-contained breathing apparatus for entry into confined space, for

other poorly ventilated areas and for large spill clean-up sites.

Clothing

Recommendation

Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Use neoprene or nitrile rubber boots when

necessary to avoid contaminating shoes. Launder contaminated clothing

before reuse.

#### 9 Physical and Chemical Properties

Flash Point 27 °C, 80.6 °F PMCC (Typical)

**Upper Flammable** 

Limit

Not determined.

Lower Flammable

Limit

Not determined.

**Autoignition Point** 

Not determined.

**Explosion Data** 

Material does not have explosive properties.

**Vapor Pressure** 

Not determined.

pH

Not determined.

**Specific Gravity** 

1 (15.6 °C)

**Bulk Density** 

Not determined.

**Water Solubility** 

Insoluble.

Percent Solid

Not determined.

**Percent Volatile** 

Unknown.

**Volatile Organic** 

Compound

Not determined.

**Vapor Density** 

Not determined.

**Evaporation Rate** 

Not determined.

Odor

Mild

**Appearance** 

Dark liquid.

Viscosity

Unknown.

**Odor Threshold** 

Unknown.

**Boiling Point** 

Not determined.

Pour Point

Not determined.

Temperature

Melting / Freezing

Point

Not determined.

0406.8C Page 5 of 9

The above data are typical values and do not constitute a specification.

Vapor pressure data are calculated unless otherwise noted.

AB			
10	Stability and Reactivity	<del>8</del> 1	<u>2</u> 2

Stability Material is normally stable at moderately elevated temperatures and

pressures.

Decomposition

Temperature

Not determined.

Incompatibility

Strong oxidizing agents.

Polymerization

**Decomposition** 

Will not occur.

Thermal

Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of

ine

incomplete combustion. Under combustion conditions, oxides of the

. \_

following elements will be formed: nitrogen.

**Conditions to Avoid** 

Not determined.

#### -- ACUTE EXPOSURE --

Eye Irritation Weak to moderate eye irritant. Does not meet Canadian D2B or EU R36

criteria. Based on data from components and similar materials.

**Skin Irritation** Not expected to be a primary skin irritant. Based on data from similar

materials.

Respiratory Irritation If material is misted or if vapors are generated from heating, exposure may

cause irritation of mucous membranes and the upper respiratory tract. Based on data from similar materials. Exposure to a high concentration of vapor or

mist may be irritating.

**Dermal Toxicity** The LD50 in rabbits is > 2000 mg/Kg. Based on other data or data on similar

materials. Skin absorption of components of this material may cause systemic

effects; note toxicity from other sections.

Inhalation Toxicity Excessive inhalation exposure to diphenylamine may cause chemical

asphyxiation due to the formation of methemoglobin. Symptoms may include headache, cyanosis, weakness, dizziness, anorexia, unconsciousness and

death.

Oral Toxicity The LD50 in rats is > 5000 mg/Kg. Based on data from similar materials.

**Dermal Sensitization** No data available to indicate product or components may be a skin sensitizer.

**Inhalation Sensitization** No data available to indicate product or components may be respiratory

sensitizers.

#### -- CHRONIC EXPOSURE --

#### **Chronic Toxicity**

A two year feeding study in rats and dogs of diphenylamine demonstrated liver, kidney and blood cell damage. The effect was observed at levels as low as 100 ppm. A five month feeding study in rats of 1% diphenylamine produced renal cystic disease. A dose-dependent increase in Heinz body

Page 6 of 9

formation was evident during a 1 week study of 5 to 1000 ppm. The no

**=**effect level was at 10 ppm.

Carcinogenicity No data available to indicate any components present at greater than 0.1%

may present a carcinogenic hazard.

No data available to indicate product or any components present at greater Mutagenicity

than 0.1% are mutagenic or genotoxic.

No data available to indicate either product or components present at greater **Reproductive Toxicity** 

than 0.1% that may cause reproductive toxicity.

There are conflicting reports in the literature concerning the teratogenicity of **Teratogenicity** 

diphenylamine. However, because the predominant route of exposure was oral (via gavage or diet) and relatively high dose levels were administered in the studies where positive effects were observed, it would not seem to present

a workplace hazard.

#### -- ADDITIONAL INFORMATION --

No other health hazards known. Other

12 **Ecological Information** 

#### -- ENVIRONMENTAL TOXICITY --

Freshwater Fish

Toxicity

Not determined.

Freshwater

**Invertebrates Toxicity** 

Not determined.

Algal Inhibition

Not determined.

Saltwater Fish Toxicity Not determined.

Saltwater Invertebrates

**Toxicity** 

Not determined.

**Bacteria Toxicity** 

Not determined.

Miscellaneous Toxicity Not determined.

#### -- ENVIRONMENTAL FATE --

**Biodegradation** 

Adequate data is not available to estimate the biodegradation potential of this

material.

**Bioaccumulation** 

There is no data available to evaluate this material for bioconcentration.

**Soil Mobility** 

Not determined.

13 **Disposal Consideration** 

**Waste Disposal** 

This material, if discarded, is a hazardous waste under RCRA Regulation 40 CFR 261. Waste management should be in compliance with federal, state and local laws. Material, if discarded, is expected to be hazardous waste under RCRA due to ignitability (D001).

0406.8C Page 7 of 9

14 Transport Information

ICAO/IATA (US) Flammable liquid, n.o.s. (Alkylated diphenylamine), Class 3, UN1993, PG III

ICAO/IATA (International)

Flammable liquid, n.o.s. (Alkylated diphenylamine), Class 3, UN1993, PG III

IMDG Flammable liquid, n.o.s. (Alkylated diphenylamine), Class 3, UN1993, PG III

IMDG EMS FireF-EIMDG EMS Spill $\underline{S-E}$ 

IMDG MFAG \*Subsection 4.2

IMO Marine Vessel Not determined.

U.S. Barge Not determined.

USCG Compatibility Not determined.

U.S. DOT Bulk Flammable liquid, n.o.s. (Alkylated diphenylamine), Class 3, UN1993, PG III Flammable liquid, n.o.s. (Alkylated diphenylamine), Class 3, UN1993, PG III

**DOT NAERG** 128

TDG Bulk Flammable liquid, n.o.s. (Alkylated diphenylamine), Class 3, UN1993, PG III

TDG Non-Bulk Flammable liquid, n.o.s. (Alkylated diphenylamine), Class 3, UN1993, PG III

Mexico Non-Bulk Flammable liquid, n.o.s. (Alkylated diphenylamine), Class 3, UN1993, PG III

Mexico Non-Bulk Flammable liquid, n.o.s. (Alkylated diphenylamine), Class 3, UN1993, PG III

Bulk Quantity 85000 liters, 22457 gal.

Non-Bulk Quantity 207.8 liters, 55 gal.

Review classification requirements before shipping materials at elevated temperatures.

15 Regulatory Information

-- Global Chemical Inventories --

USA May require notification in the U.S. Commercial shipments from Lubrizol's

U.S. location must be exported to non U.S. customers only. Research and development quantities must bear special labels and shipping papers. Sample recipients must comply with the requirements for an R&D exemption under

TSCA.

Other TSCA Reg. Section 8a, 4a (Diphenylamine). May be subject to export notification under

TSCA Section 12(b).

EU All components are in compliance with the EC Seventh amendment Directive

92 /32/EEC.

**Japan** May require notification in Japan.

Australia May require notification before sale under Australian regulations.

Canada May require notification before sale under Canadian regulations.

Switzerland

All components are in compliance with the Environmentally Hazardous

0406.8C

Substances Ordinance in Switzerland.

May require notification before sale in Korea. Korea

May require notification before sale under Philippines Republic Act 6969. **Philippines** 

This product may require notification in China. China

#### -- Other U.S. Federal Regulations --

This product does not contain greater than 1.0% of any chemical substance on SARA Ext. Haz. Subst.

the SARA Extremely Hazardous Substances list.

**SARA Section 313** 

5% Diphenylamine, CAS no. 122-39-4

**SARA 311** Classifications Acute Hazard Chronic Hazard Yes Fire Hazard Yes Reactivity Hazard No

**CERCLA Hazardous** 

**Substances** 

None known.

FDA Approval

Not applicable.

#### -- State Regulations --

Cal. Prop. 65

This product does not intentionally contain any chemicals known by the State of California to cause cancer and/or birth defects. Moreover, we do not routinely analyze its products for impurities which may be such chemicals.

#### -- Product Registrations --

**U.S. Fuel Registration** 

Not applicable.

U.S. Dept of

Agriculture

This product has not been filed with the USDA to support H2 approvals.

**NSF** Nonfood

**Compounds** 

This product has not been filed with the NSF to support H1 or H2 approvals.

Registration

**Finnish Registration** 

Number

Not Registered

**Swedish Registration** 

Number

Not Registered

**Norwegian Registration** 

Number

Not Registered

**Danish Registration** 

Number

Not Registered

**Swiss Registration** 

Not Registered

**Italian Registration** 

Number

Number

Not Registered

Korean Registration

Number

Not Registered

**New Zealand** 

**Registration Number** 

Not Registered

#### -- Other / International

TDG Regulated Limit.

None known.

U.S. Tariff Heading

Not determined.

Number
Schedule B Number

Not determined.

1	
	n

Other Information

**US NFPA Codes** 

4.5	Health	Fire	Reactivity	Special
	2	3	0	N/E

(N/E) - None established

**HMIS Codes** 

Health	Fire	Reactivity
2 *	3	0

**Precautionary Labels** 

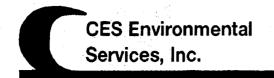
DANGER.

- FLAMMABLE LIQUID. MAY CREATE A FLASH FIRE HAZARD.
- HARMFUL IF INHALED.
- HARMFUL IF ABSORBED THROUGH SKIN.
- MAY CAUSE EYE IRRITATION.
- MAY CAUSE CHRONIC HEALTH EFFECTS. BASED ON DATA WITH LABORATORY ANIMALS.

**Revision Indicators** 

This MSDS has no revisions since 5 October 2006

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of The Lubrizol Corporation's knowledge; however, The Lubrizol Corporation makes no warranty whatsoever, expressed or implied of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from use thereof. The Lubrizol Corporation assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.



4904 Griggs Road Houston TX 77021 Tel, (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 10/15/2007

Dear Juan Mendez

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2469

Producer: Shell Global

Address: 780 Clinton Drive

Galena Park, TX 77547

#### Material / Product Information

Name of Material / Product Off-spec material Container Type:

### Detailed Description of Process Generating or Producing the Material / Product:

Out of date / off-spec product

Color: light yellow to brown Odor: hydrocarbon

pH: na

**Physical State:** 

Incompatibilities: see MSDS

Safety Related Data/Special Handling:

see MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

## **CES Environmental** Services, Inc.

4904 Griggs Road

Houston, TX 77021 Fax: (713) 676-1676

Phone: (713) 676-1460

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 39048 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information					
Company:	Shell Lubricants				·	·
Address:	780 Clinton Drive.	(P.O. Box 4427, Houston,	TX 77210)			
City, State, Zip:	Galena Park, TX 7	7547				
Contact:	Juan Mendez		Title:	Environm	ental Technicia	n
Phone No:	713-277-3886		Fax No:	713-277-3	937	
24/hr Phone:	713-546-8505					
U.S. EPA I.D. No:	TXD150364289					
State I.D.	39781		SIC Code:	N/A		
SECTION 2: Billin Company:	g Information – 🛛 S	Same as Above				
Address:			· · · · · · · · · · · · · · · · · · ·			
City, State, Zip:					· · · · · · · · · · · · · · · · · · ·	
City, State, Zip:  Contact:		Title:			<del> </del>	
Phone No:			· ·			
rnone No:		Fax No:	·			· · · · · · · · · · · · · · · · · · ·
SECTION 3: Gener	ral Description of the	Waste Product				
Name of Waste: Of Detailed Description		ng Waste: Out of date/O	ff-spec Product			
Physical State:	□ Liquid     □ Solid	☐ Sludge ☐ Filter Cake	<ul><li>☐ Powder</li><li>☐ Combinatio</li></ul>	n		
Color: light yellow to	<u>b brown</u>	dor: <u>Hydrocarbon</u>				
Specific Gravity (wa	iter=1): <u>0.9</u>	Density: 7.5 lbs/gal				
Layers:	⊠ Single-phase	Multi-phase				
Container Type:	□ Drum	☐ Tote	☐ Truck		Other (explai	n)
Container Size:	<u>55-gal</u>					
	<del>-</del> _		<del></del>			<u>.</u> .
253						***
Frequency:	☐ Weekly	Monthly	Quarterly		Yearly	i.
Number of Units (co	ntainers): <u>variés</u> 1(	Other:	<b>-</b> .			
Texas State Waste C	Code No: Rec	eyele Product				
Proper U.S. DOT Sh	ipping Name:	Non DOT/Non RC	RA regulated wast	moles	id	
Class: N/A			PG: 4 N/A		1	
Class: N/A	UN/NA	A: N/A =	* PG: *-1N/A	<del></del>	RQ:	NA =
Flash Point 💻	pН	Reactive Sulfides	Reactive C	yanides	Solids	
>140	N/A	N/A_mg/l ==	N/A mg/l	.w.,	0%	- Contract of the contract of
Oil&Grease	TOC	Zinc	Copper	Nic		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
N/Amg/l	N/Amg/l	N/A mg/l	N/A mg/	<u>N/A</u>	<u>∖</u> mg/l	

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials  Infineum SV277 Viscosity Modifier			C Rang	Units or %	
			100		%
					111

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Note See NSDS

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): N/A See MS D

#### **SECTION 8: Generator's Knowledge Documentation**

N/A

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>N/A</u>
TCLP Volatiles:	N/A
TCLP Semi-Volatiles:	N/A
Reactivity:	N/A
Corrosivity:	N/A

Ignitability:

#### **SECTION 9:** Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Date:	10-15-0	7	
Printed Name/Title:	no signature required- p	oroduct					
	<del>गद्धाः ।</del> ः			0	reindi	ra i	nto.
CES USE ONLY (DO NOT W	RITE IN THIS SPACE)	Ret W/	Product Sal	les to for	~ VISCO	SIFU	
Compliance Officer: 20	RITE IN THIS SPACE)	A	Additional Inform	nation:			
Date: 10-15-07	( )	Rejected	modifier	charge	\$ 65/3	num	torans
Approval Number:	2469	· · · · · · · · · · · · · · · · · · ·		To State and State Control of the Co	A Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company		T T
	.72	#1			Table .		. <u> </u>
	The state of the s	- 000			<b>4</b>		

SECTION 10: Waste Receipt Classification Under 40 CFR 4	<u>37</u>	n de la companya della companya della companya de la companya della companya dell	
Is this material a wastewater or wastewater sludge?   YES	⊠ NO		
If 'Yes', complete this section.			
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	PRIATE CA	TEGORY, GO TO THE N	VEXT PAGE.
Metals Subcategory: Subpart A			
Spent electroplating baths and/or sludges			
☐ Metal finishing rinse water and sludges			
<ul><li>Chromate wastes</li><li>Air pollution control blow down water and sludges</li></ul>			
Spent anodizing solutions		to encountry of the second	
☐ Incineration wastewaters ☐ Waste liquid mercury			
Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals			
Cleaning, rinsing, and surface preparation solutions from elec	ctroplating or	phosphating operations	
<ul><li>Vibratory deburring wastewater</li><li>Alkaline and acid solutions used to clean metal parts or equip</li></ul>	nment		
	,		
Oils Subcategory: Subpart B			
Used oils			
Oil-water emulsions or mixtures Lubricants			
Coolants	ar e	** ; **	
Contaminated groundwater clean-up from petroleum sources Used petroleum products	,		
Oil spill clean-up Bilge water	,		
Rinse/wash waters from petroleum sources			
☐ Interceptor wastes ☐ Off-specification fuels			
Underground storage remediation waste			
Tank clean-out from petroleum or oily sources  Non-contact used glycols			
Aqueous and oil mixtures from parts cleaning operations			
Wastewater from oil bearing paint washes			
Organics Subcategory: Subpart C			
Landfill leachate			
Contaminated groundwater clean-up from non-petroleum sou Solvent-bearing wastes	ırces		
Off-specification organic product		Announced the second of the se	
Still bottoms Byproduct waste glycol			
Wastewater from paint washes	· .		
Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations			
Tank clean-out from organic, non-petroleum sources		A	
	55		

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.							
(2)			s than 100 mg/L, and has any of the ould be classified in the metals sub		concentrations in exces			
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L l: 37.5 mg/L						
(3)			s than 100 mg/L, and does not have bove, the waste should be classified					
		Metals Subcategory		the entropy of the second of				
	$\boxtimes$	Oils Subcategory						
		Organics Subcategory						

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



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## MATERIAL SAFETY DATA SHEET

**SECTION 1** 

PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT** 

Product Name: Infineum SV277

Product Description: Petroleum Product Additive

Product Code: 83742100, 83742100 Intended Use: Viscosity modifier

**COMPANY IDENTIFICATION** 

Supplier:

INFINEUM USA L.P.

P.O. Box CN 135

Linden, NJ. 07036 USA

24 Hour Health Emergency **Transportation Emergency Phone**  800-726-2015 800-424-9300

800-654-1233

**Product Technical Information Supplier General Contact** 

800-654-1233

**SECTION 2** 

**COMPOSITION / INFORMATION ON INGREDIENTS** 

No Reportable Hazardous Substance(s) or Complex Substance(s).

**SECTION 3** 

HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

#### POTENTIAL PHYSICAL / CHEMICAL EFFECTS

Thermal burn hazard - contact with hot material may cause thermal burns.

#### POTENTIAL HEALTH EFFECTS

Low order of toxicity. May be irritating to the eyes, nose, throat, and lungs. Excessive exposure may result in eye, skin, or respiratory irritation.

NFPA Hazard ID:

Health:

Flammability: 1

Reactivity: 0

HMIS Hazard ID:

Health:

Flammability: 1

Reactivity:

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

**SECTION 4** 

**FIRST AID MEASURES** 

#### INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical devices ruse



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mouth-to-mouth resuscitation.

#### SKIN CONTACT

Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. For hot product: Immediately immerse in or flush affected area with large amounts of cold water to dissipate heat. Cover with clean cotton sheeting or gauze and get prompt medical attention.

#### **EYE CONTACT**

Flush thoroughly with water. If irritation occurs, get medical assistance.

#### **INGESTION**

First aid is normally not required. Seek medical attention if discomfort occurs. Seek immediate medical attention. Do not induce vomiting.

#### **SECTION 5**

#### **FIRE FIGHTING MEASURES**

#### **EXTINGUISHING MEDIA**

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

#### **FIRE FIGHTING**

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Smoke, Fume

#### **FLAMMABILITY PROPERTIES**

Flash Point [Method]: >150C (302F) [ ASTM D-93]

Flammable Limits (Approximate volume % in air): LEL: N/D

**Autoignition Temperature:** 

#### **SECTION 6**

#### ACCIDENTAL RELEASE MEASURES

#### **NOTIFICATION PROCEDURES**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

#### **SPILL MANAGEMENT**

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapor



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suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large Spills: Water spray may reduce vapor; but may not prevent ignition in closed spaces. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. If liquid is too viscous for pumping, scrape it up with shovels into a suitable container for recycle or disposal.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Report spills as required to appropriate authorities. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

#### **ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

#### **SECTION 7**

#### HANDLING AND STORAGE

#### **HANDLING**

Avoid contact with skin. Prevent small spills and leakage to avoid slip hazard.

Loading/Unloading Temperature: 80°C (176°F) - 100°C (212°F) [Do not reheat >100°C (212°F)]

**Transport Temperature:** <= 125°C (257°F)

Static Accumulator: This material is not a static accumulator.

#### **STORAGE**

Do not store in open or unlabelled containers. **Storage Temperature:** <= 80°C (176°F)

#### **SECTION 8**

#### **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure limits/standards for materials that can be formed when handling this product:** When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL, 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

#### **ENGINEERING CONTROLS**



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The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

#### PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly effect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

Thermally protective, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves. If prolonged or repeated contact is likely, chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet style gloves.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended. If contact with material may occur, safety glasses and face shield are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended. If product is hot, thermally protective, chemical resistant apron and long sleeves are recommended.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

#### **ENVIRONMENTAL CONTROLS**

See Sections 6, 7, 12, 13.

#### SECTION 9

#### PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

#### **GENERAL INFORMATION**

Physical State: Liquid



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Color: Colorless
Odor: Characteristic
Odor Threshold: N/D

#### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15.6 °C): 0.869 15.6°/15.6°C Density (at 15 °C): 1 kg/m³ (0.01 lbs/gal, 0 kg/dm³) Flash Point [Method]: >150°C (302F) [ ASTM D-93]

Flammable Limits (Approximate volume % in air): LEL: N/D

Autoignition Temperature:
Boiling Point / Range:
Vapor Density (Air = 1): N/D
Vapor Pressure: [Negligible]

Evaporation Rate (n-butyl acetate = 1): N/A

pH: N/A

Log Pow (n-Octanol/Water Partition Coefficient): N/A

Solubility in Water: Negligible

Viscosity: 6656 cSt (6656 mm2/sec) at 40 C | 1240 cSt (1240 mm2/sec) at 80C

Oxidizing Properties: See Sections 3, 15, 16.

#### OTHER INFORMATION

Freezing Point: N/D Melting Point: N/A

#### **SECTION 10**

#### STABILITY AND REACTIVITY

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat.

MATERIALS TO AVOID: Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

#### **SECTION 11**

#### TOXICOLOGICAL INFORMATION

#### **ACUTE TOXICITY**

Route of Exposure	Conclusion / Remarks				
Inhalation					
Toxicity: LC50 > 5 mg/l	Minimally Toxic.				
Irritation: No end point data.	Elevated temperatures or mechanical action may form vapors, r or fumes which may be irritating to the eyes, nose, throat, or lur				
Ingestion					
Toxicity: LC50 > 2000 mg/kg	Minimally Toxic.				
The state of the s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Skin	. 20 (1.00 )				
Toxicity: LG50 > 2€00 mg/kg	Minimally Toxic.				



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Irritation: No end point data.	Mildly irritating to skin with prolonged exposure.			
Eye				
Irritation: No end point data.	May cause mild, short-lasting discomfort to eyes.			

Additional information is available by request.

The following ingredients are cited on the lists below: None.

-- REGULATORY LISTS SEARCHED--

1 = NTP CARC

3 = IARC 1

5 = IARC 2B

2 = NTP SUS

4 = IARC 2A

6 = OSHA CARC

#### **SECTION 12**

#### **ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

#### **ECOTOXICITY**

Material -- Not expected to be harmful to aquatic organisms.

#### **MOBILITY**

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

#### PERSISTENCE AND DEGRADABILITY

#### **Biodegradation:**

A component -- Expected to be inherently biodegradable

#### **SECTION 13**

#### **DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

#### **DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

#### **REGULATORY DISPOSAL INFORMATION**

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with



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contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

#### **SECTION 14**

#### TRANSPORT INFORMATION

#### LAND (DOT)

Proper Shipping Name: ELEVATED TEMPERATURE LIQUID, N.O.S. (HYDROCARBON OIL)

Hazard Class & Division: 9

ID Number: 3257 Packing Group: III ERG Number: 128

Label(s): 9

Transport Document Name: ELEVATED TEMPERATURE LIQUID, N.O.S., 9, UN3257, PG III

Footnote: Material is not regulated when shipped at temperatures below 212 F and its flash point. The above classification applies if the product is offered for transport at a temperature equal or greater than 100 deg. C (212 deg. F). If the product is offered for transport at less than 100 deg. C (212 deg. F), the transport classification is Not Regulated.

#### LAND (TDG)

Proper Shipping Name: ELEVATED TEMPERATURE LIQUID, N.O.S. (HYDROCARBON OIL)

Hazard Class & Division: 9

UN Number: 3257 Packing Group: III

Footnote: The above classification applies if the product is offered for transport at a temperature equal or greater than 100 deg. C (212 deg. F). If the product is offered for transport at less than 100 deg. C (212 deg. F), the transport classification is Not Regulated.

#### SEA (IMDG)

Proper Shipping Name: ELEVATED TEMPERATURE LIQUID, N.O.S. (HYDROCARBON OIL)

Hazard Class & Division: 9 EMS Number: F-A,S-P UN Number: 3257 Packing Group: III

Label(s): 9 (ET)

Transport Document Name: ELEVATED TEMPERATURE LIQUID, N.O.S., 9 (ET), UN3257, PG III,

Footnote: The above classification applies if the product is offered for transport at a temperature equal or greater than 100 deg. C (212 deg. F). If the product is offered for transport at less than 100 deg. C (212 deg. F), the transport classification is Not Regulated.

#### AIR (IATA)

Proper Shipping Name: FORBIDDEN



Revision Date: 27Jul2006

Page 8 of 9

[Footnote: If the product is offered for transport at less than 100 deg. C (212 deg. F), the transport classification is Not Regulated. Product classified as UN 3257 is forbidden by air transport but the product may be transported by air if its temperature is less than 100 deg. C (212 deg. F).]

#### **SECTION 15**

#### REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:** When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, IECSC, DSL, EINECS, ENCS, KECI, PICCS, TSCA

**EPCRA**: This material contains no extremely hazardous substances.

**CERCLA:** This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Contact local authorities to determine if other reporting requirements apply.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

**SARA (313) TOXIC RELEASE INVENTORY:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The Following Ingredients are Cited on the Lists Below:

Chemical Name	CAS Number	List Citations	
HIGHLY REFINED MINERAL OIL	64742-65-0	13, 18	
TRACE METAL IMPURITIES	None	10	

#### -- REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16	OTHER INFORMATION		

N/D = Not determined, N/A = Not applicable

## THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

**Revision Changes:** 

Section 07: Loading/Unloading Temperature C(F) was modified.

Section 07: Storage Temperature C(F) was modified.

This warning solven to comply with California Health and Safety Code 25249.6 and does not constitute an admission or



Revision Date: 27Jul2006

Page 9 of 9

a waiver of rights. This product contains a chemical known to the State of California to cause cancer.

The information contained in this document is based upon data believed to be reliable at the time of going to press and relates only to the matters specifically mentioned in this document. Although Infineum has used reasonable skill and care in the preparation of this information, in the absence of any overriding obligations arising under a specific contract, no representation, warranty (express or implied), or guarantee is made as to the suitability, accuracy, reliability or completeness of the information; nothing in this document shall reduce the user's responsibility to satisfy itself as to the suitability, accuracy, reliability, and completeness of such information for its particular use; there is no warranty against intellectual property infringement; and Infineum shall not be liable for any loss, damage or injury that may occur from the use of this information other than death or personal injury caused by its negligence. No statement shall be construed as an endorsement of any product or process. For greater certainty, before use of information contained in this document, particularly if the product is used for a purpose or under conditions which are abnormal or not reasonably foreseeable, this information must be reviewed with the supplier of such information.

Internal Use Only

MHC: 0, 0, 0, 0, 2, 1

DGN: 6004075 (1010189) (NA Core)

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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/16/2007

Dear Dave Allen

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2470

Generator: Brenntag

Address: 14826 Hooper Road

Houston, TX 77047

#### Waste Information

Name of Waste: Tank cleaning wash waters

**TCEQ Waste Code #:** 10172191

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Cleaning of product tanks

Color: clear, yellow, grey Odor: slight organic

pH: neutral

**Physical State:** 

Incompatibilities: strong bases, acids, and oxidizers

Safety Related Data/Special Handling:

level C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# **CES Environmental** Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

(713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 309

ISWR No: 30900

CECCETON: C				
SECTION 1: Genera Company:	tor Information  Brenntag Southwest	Ino		
Address:	14826 Hooper Road			
City, State, Zip:	Houston, TX 77047			
Contact:	Dave Allen		Title:	Facility Manager
Phone No:	713-433-6771		Fax No:	713-433-8572
24/hr Phone:	CES-713-676-1460	· · · · · · · · · · · · · · · · · · ·	- • • • • • • • • • • • • • • • • • • •	717 100 0012
U.S. EPA I.D. No:	TXD062128004	· · · · · · · · · · · · · · · · · · ·	•	
State I.D.	30205		SIC Code:	NA
SECTION 2: Billing Company: Address: City, State, Zip:	Information – 🔀 Sa	nme as Above		
		Title:		
Contact; Phone No:		Fax No:		
Phone No:		T. W. 140.		
anamiona a	I Daniel de a céaba	Wasta		
SECTION 3: Genera	1 Description of the	waste		
Name of Waste: <u>Tank</u> Detailed Description of	Cleaning Wash Wat of Process Generation	ers ng Waste: <u>Cleaning of proc</u>	luct tanks	
Physical State:	∠ Liquid	☐ Sludge ☐	Powder	
I Hysical States	☐ Solid	Filter Cake	_ ] Combinatio	n
	20110	L Filter Cane	] (0),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Color: Clear, yellow, s	grey O	dor: <u>slight organic</u>		
Specific Gravity (wat	er=1): <u>.95-1.01</u>	Density: 8 lbs/gal		
Layers:	Single-phase	Multi-phase		
Container Type:	☐ Drum	□ Tote     □	Truck	Other (explain)
Container Size:		300	3000	
Container Size:			<del></del>	
Frequency: Number of Units (cor Texas State Waste C		Monthly	Quarterly	☑ Yearly
		Non-RCRA; Non-DC	T Regulated M	aterial
Proper U.S. DOT Sh	ipping Name:	NOR-KCKA, NOR-DC		
Class: NA	UN/N	A: NA	PG: NA	RQ: NA
				Solids Solids
Flash Point	рН	Reactive Sulfides	Reactive C	Cyanides Solids 0-2%
>140	neutral	Omg/l	Omg/l	Nickel
Oil&Grease	TOC	Zinc	Copper	Omg/I
>1500mg/l	>1500mg/l	Omg/l	Omg/I	

#### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE  The waste consists of the following m		
Water with soap	80-98	%
phosphoric acid	0-5	%
Diethanol Amine	0-5	%
n-butyl alcohol	0-2	% =
SC100 (	0-5	%
VMP and other non-hazardous products	0-5	%

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level  $\underline{C}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

#### SECTION 7: Incompatibilities

Please list all incompatibilities (if any): strong bases and acids and oxidizers

## SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	X
Corrosivity:	<u>X</u>
Ignitability:	<u>X</u>

Authorized Signature:

## SECTION 9: Generator's Certification

The information contained herein is based on \( \sum\_\) generator knowledge and/or \( \sum\_\) analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Date: \( \lambda \lamb

os manager
Additional Information: 354/ga/min250°  Or 100°0/tote  Trans 70°0/4r + F5C.

## SECTION 10: Waste Receipt Classification Under 10 CFR 437

s this material a wastewater or wastewater sludge? XYES 1

If 'Yes', complete this section.

## PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

<u>Metal</u>	Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils S	ubcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
Orga	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L= Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

Oils Subcategory

Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



# Sample Evaluation Form

Sample ID #

Please Complete This Section

Sample Results Reported to

Test Completed By : 💍 💪

Date 9 1 25 1 07

	•
Generator / Customer Name: Breun /	
Name or Type of Waste: Tan 4 wash Riss	
Name or Type of Waste:  Tan4 Wash Rits=5  Process Generating Waste: Cleaning of Fayos	$\frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{\sqrt{2}$
Number of Samples: Submitted By:	
Analysis To Be Completed: PH, F/454, TOC.	
Turnaround Time :	<b>6</b>
Other.	
( Lab Use Only )	
Sample Results: PFI - QF TOC - 34550	Art of the second
Suggested Method of Treatment: 1818 0834 6 145 F	
Suggested Price Range :	

White - CES Salesperson Copy Pink - Processing Facility Copy

Date: 09, 26, 07

2471 South Cast Terminak (cast)



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/16/2007

Dear Dan Pham

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2471

Generator: South Coast Terminals (La Porte)

Address: 10900 Strang Rd.

La Porte, TX 77571

Waste Information

Name of Waste: Fire fighting foam and water

**TCEQ Waste Code #:** 99101191

Container Type:

ontainer Type: Cu yu bu

**Detailed Description of Process Generating Waste:** 

Unused product from fire system

Color: clear

Odor: mild, sxweet

**pH:** 6.5-8.5

**Physical State:** 

Incompatibilities: reactive metals, electricity enrgized equipment, any material reactive

with water, and strong oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener						
Company:	South Coast Termi					<del> </del>
Address:	10900 Strang Road					
City, State, Zip:	La Porte,TX 7757	1 -				
Contact:	Dan Pham		_ Title:		ns Manager	
Phone No:	281-842-1286		Fax No:	281-842	-7235	
24/hr Phone:		·	_			
U.S. EPA I.D. No:	TXD981611486			374		
State I.D.	37710		SIC Code:	NA		·
SECTION 2: Billing	· Information	lama aa Aharia				
Company:	THIOT MALION - [ ]	SAILLE AS ADOVE				
Address:	· · · · · · · · · · · · · · · · · · ·		***************************************			
City, State, Zip:					•	
Contact:	" <b></b>	Title:			···	
Phone No:		Fax No:				
						·
SECTION 3: Gener	al Description of the	e Waste				
Name of Waste: Fire			_			
Detailed Description	of Process Generat	ing Waste: unused product	<u>from fire system</u>	1		
Physical State:	☐ Liquid	⊠ Sludge [	Powder			
r nysicai State;			=			
	Solid Solid	Filter Cake	] Combinatio	n		
Color: clear	(	Odor: mild, sweet				
Color. <u>Cicar</u>	`	Julia, Sweet				
Specific Gravity (wa	ter=1): 1.00	Density: 8.34 lbs/gal				
	-)· <u>-100</u>	_ casing / <u>e.e</u> 100 g.m.				
Layers:	Single-phase	Multi-phase				
<b>,</b>	—					
Container Type:	☐ Drum	☐ Tote ☐	Truck	$\boxtimes$	Other (explain)	
Container Size:				· —	cubic yard box	
Container Diag.		· · · · · · · · · · · · · · · · · · ·			00010 70.0 00.0	
Frequency:	Weekly	$\square$ Monthly $\boxtimes$	Quarterly	Ш	Yearly	
Number of Units (co	ntainers): <u>5</u>	Other:				
Texas State Waste C	Code No: 99	10 1191				
Proper U.S. DOT Sh	ipping Name:	Non RCRA Non DO	Regulated Mar	terail		
Class: NA	UN/N	A: NA	PG: NA	·	RQ: NA	· · · · · · · · · · · · · · · · · · ·
	014/11			<del>-</del> .	7.6. 14	
					· ·	
Flash Point	pH	Reactive Sulfides	Reactive C	yanides	Solids	
NA	<u>6.5-8.5</u>	NAmg/I	NAmg/I		100%	
Oil&Grease	TOC	Zinc	Copper		ckel	
<1500mg/l	>1000mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>O</u> n	ng/l	

#### SECTION 4: Physical and Chemical Data

	A CONTRACTOR OF THE CONTRACTOR		A Part of the Control	dic_uz		Units
	Section 1 Accessed to 2	The waste consists of the following materials		100	Ranges are acceptable	or %
	Ansulite 3x3 L	ow Viscosity			100	%
			خت.		-	
L		<b></b>			<del>-</del>	
L						

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

reactive metals, electricity energized equipment, any material reactive with water, and strong oxidizers

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metais:	X
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	X
Reactivity:	$\bar{\mathbf{x}}$
Corrosivity:	X
Ignitability:	X

#### SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

rinted Name/Title:	Date: 10	1010
ES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:	
ompliance Officer: folkant Tayah  ate: 10-16-07 Approved Rejected	\$110.001 cu. yard	1
pproval Number: 247)		

## SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES ⊠ NO If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes

Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

**ANSUL** 

ANSUL INCORPORATED MARINETTE, WI 54143-2542 ANSULITE 3X3 LOW VISCOSITY MATERIAL SAFETY
DATA SHEET CONFORMS TO DIRECTIVE 2001/58/EC

P ØR 00% EPAHO107001533 D 04

Pak 00%

P 07

00%

24 Toleaneming Inth (Quales St.) 2472



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/17/2007

Dear Phil Horton

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2472

Generator: Oceaneering International, Inc. (Charles Street)

Address: 11800 Charles Street

Houston, TX 77041

Waste Information

Name of Waste: Empty containers

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Empty product containers - drums and totes

Color: various

Odor: none

pH: neutral

**Physical State:** 

**Incompatibilities:** none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



490 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676



TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900 113

SECTION 1: Genera	ator Information			
Company:	Oceaneering Intern			
Address:	11800 Charles Str			
City, State, Zip:	Houston, TX 770-			
Contact:	Chris Hill	<u>.i.</u> ,	Title:	Ops Manager
Phone No:			Fax No:	-
24/hr Phone:	CES-713-676-146			
U.S. EPA I.D. No:		N A		0 ( A
State I.D.	CE8QG	NA	SIC Code:	NA
SECTION 2: Billing	Information -	Same as Above		
Company:	Megne	wing Inte	Tesc	
Address:	11917	Fla 529		
City, State, Zip:	1.1			
Contact:	Chui2	4/1'// Title:		
Phone No:		Fax No:		
SECTION 3: Gener	al Description of th	e Waste		
Nome of Wester Time	nti Contoinora (Con	ne Stream as CES-2061)		
		ing Waste: Empty Produc	ct containers-drum	is and totes
Physical State:	□ Lionid	☐ Sludge	Powder	
rnysicai State:	Liquid	•	<del></del>	
	⊠ Solid	Filter Cake	☐ Combinatio	n
Color: various		Odor: none		
Color: various	`	Juon inome		
Specific Gravity (wa	ter=1): <u>1.2</u>	Density: 10 lbs/gal		a ar
Layers:	Single-phase	☐ Multi-phase		
C	D		☐ Truck	Othon (ovuloin)
Container Type:	□ Drum     □		Iruck	Other (explain)
Container Size:	<u>55 gal</u>	<u>300 gal</u>		
	_		_	· · · · · · · · · · · · · · · · · · ·
Frequency:	☐ Weekly		Quarterly	Yearly
Number of Units (co	ntainers): 10 drum	s/1 tote Of	ther:	
Texas State Waste C	ode No: N	A-Recyclable Material		
Proper U.S. DOT Sh	-	Non-RCRA; Non-I	OOT Regulated Ma	aterial
-		· · · · · · · · · · · · · · · · · · ·		
Class: NA	UN/N	A: NA	PG: NA	RQ: NA
<u> </u>				
Flash Point	рН	Reactive Sulfides	Reactive C	yanides Solids
none	neutral	Omg/l	0mg/l	100%
Oil&Grease	TOC	Zine	Copper	Nickel
>1500mg/l	>1500mg/I	Oma/1	Oma/l	Oma/l

## TETION 4: Physical and Chemical Data

© OMPONENTS TABLE		adje 1	Concentration	Units
The wasteconsists of the following materials			Ranges are acceptable	or %
🏂 gallon drums-Poly 🚐			50-100	%
55 gallon drums-Metal	W 400	120	0-50	%
300 gallon poly totes	1.4		0-10 =	%
÷				
2				

			100 0000000000000000000000000000000000	
The waste consists of the following materials			Rangesare acceptable	Units or %
gallon drums-Poly		Lange Service	50-100	%
55 gallon drums-Metal		e con-	0-50	%
300 gallon poly totes			0-10	%
=300 gallon poly totes		****	0-10 =	70
7-	-			
			. 125	
*				
<u> </u>			7	
SECTION 5: Safety Related Data				
If the handling of this waste requires the use of special protect	ctive e	quipmen	t, please explain.	
Level D			- - 	
			. <u></u>	
SECTION 6: Attached Supporting Documents				
List all documents, notes, data, and/or analysis attached to the	his fori	n as par	t of the waste approval packa	ge.
None				
SECTION 7: Incompatibilities				
Please list all incompatibilities (if any):				
<u>none</u>				
SECTION 8: Generator's Knowledge Documentation				
Laboratory analysis of the hazardous waste characteristics, $\boldsymbol{l}$	listed b	elow, W	AS NOT PERFORMED base	d upon the follow
generator knowledge:				
TCLP Metals: X				
TCLP Semi-Volatiles: X				
Reactivity: $\overline{\underline{X}}$				
TCLP Volatiles: $\underline{X}$ TCLP Semi-Volatiles: $\underline{X}$ Reactivity: $\underline{X}$ Corrosivity: $\underline{X}$ Ignitability: $X$				
Ignitability: $\underline{X}$				
SECTION 9: Generator's Certification	)			
	/	_		
The information contained herein is based on generator known	wledge	and/or L	analytical data. I hereby ce	rtify that the above
attached description is complete and accurate to the best of n				
omissions of composition properties exist and that all known of tested are representative of all materials described by this docum	or suspe	ected naz	ards have been disclosed. I co	ertify that the mai
tested are representative of an materials described by this docum	ent.		1 /	
Authorized Signature:	-		Date: 10/15/67	)
Printed Name/Title:				
,				
CEC LICE ON WAY ON NOTIFIED BY THE CELL CELL			·	· · · · · · · · · · · · · · · · · · ·
CES USE ONLY (DO NOT WRITE IN THIS SPACE)				
Compliance Officer: Jouldant Way a	A	lditional	Information: 15 00/Dim	1500/10

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Pollin Change	Additional Information: 1500/Dm 500/70
Date: 10-17-07 Approved Rejected	Trans 2000 4FSC
Approval Number: 2472	REC
·	

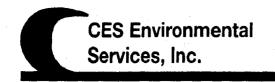
5	SECTION 10: Waste Receipt Classification Under 40 CFR 437		
J	Is this material a wastewater or wastewater sludge. YES NO		Colored Colore
j	If 'Yes', complete this section.	The second secon	
		-0	
I	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEG	ORY, GO TO THE NE	EXT PAGE.
Me	etals Subcategory: Subpart A		
	Spent electroplating baths and/or sludges  Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l		 <u>±</u>
	Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phos Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment	sphating operations	
<u>Oi</u>	ils Subcategory: Subpart B		
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes		
<u>U</u>			
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation		
	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources		

	waste contains oil and great values listed below, the wa					isted below in conc	ntrations in
7-24	, , , , , , , , , , , , , , , , , , ,	20 Miles		<u>.</u>	:		
	nium: 0.2 mg/L mium: 8.9 mg/L	Ţ.		4.			
Copp	er: 4.9 mg/L el: 37.5 mg/L	5.			77.1		
	waste contains oil and grea l above any of the values lis		_	•		•	omium, cop
	•		_	•		•	omium, cop
	el above any of the values lis		_	should be o		•	omium, cop

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

2473 Cleaneering ITH (Charlest) 2473



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/17/2007

Dear Chris Hill

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2473

Generator: Oceaneering International, Inc. (Charles Street)

Address: 11800 Charles Street

Houston, TX 77041

#### Waste Information

Name of Waste: Glycol and oil contaminated rags, booms, and pads (same strea

TCEQ Waste Code #: Recycle

**Container Type:** 

Detailed Description of Process Generating Waste: Clean up of misc. oil and glycol spills from equipment

Color: various

Odor: none

pH: neutral

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road
Phone: (713) 676-146

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

		<u> </u>					
SECTION 1: Gener	rator Information						
Company:	Oceaneering Internation	tional Inc					
Address:	11800 Charles Street						
City, State, Zip:	Houston, TX 77041	<del></del>			<del></del>		
•	Chris Hill		Titles	One Manage	<u> </u>		<del></del>
Contact:	Chris Hill		_ Title:	Ops Manager	<u> </u>		
Phone No:	ODO 510 (50 1460		_ Fax No:		•		
24/hr Phone:	CES-713-676-1460		<del>_</del> '				
U.S. EPA I.D. No:	CESQG NA	·	_	NA			
State I.D.	CESOG NA		SIC Code:	1091			
			<del></del>				
<b>SECTION 2: Billing</b>		me as Above	-				
Company:	Oceaneer	17-1-1 Thy	Inc				
Address:	1/7/2	Fin 52	7				
City, State, Zip:	HIYX	77041	7				
Contact:	Chuis H	Title:					
Phone No:		Fax No:					
		· · ·					
SECTION 3: Gener	al Description of the	Waste	•				
DECITOR GUILL	at Description of the	<u> </u>	***				
Name of Waster Gly	col and Oil Contamina	ted Rags, Booms and Pad	s (Same Stream a	s CFS-1430)			
		g Waste: Clean up of Mi			uinment		
Detailed Description	of Frocess Generatin	g waste. Clean up of wif	sc. on and giveon	spins nom cq	шршош		
Physical State:	Liquid	☐ Sludge [	Powder				
r nysicai State.							
	⊠ Solid	☐ Filter Cake	Combination	n			
Color: various	Od	lor: <u>none</u>					
Specific Gravity (wa	ter=1): 1.2	Density: 10 lbs/gal					
,	/ <del></del>	· ·					
Layers:	Single-phase	☐ Multi-phase					
Layers.	ZZ Single-phase	La Maiti-phase					
C 4 - \$ T	<b>⊠</b>		7	$\nabla$	41 (1		
Container Type:	⊠ Drum	☐ Tote ☐	_ Truck		ther (explain	1)	
Container Size:	<u>55 gal</u>			<u>B</u> :	<u>ag</u>		
_	<del></del>	T T	7				2
Frequency:	Weekly	Monthly [2]	<b>Quarterly</b>	∐ Y	early		
Number of Units (co	ntainers): <u>2</u>	Other:					
Texas State Waste C	ode No: NA-	Recyclable Material					
			200 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Proper U.S. DOT Sh	ipping Name:	Non-RCRA; Non-Do	OT Regulated Ma	aterial			
Class: NA	UN/NA:	NA	PG: NA		RQ:	NA	-
<u> </u>					-		
- :							.77
Flash Point	pH H	Reactive Sulfides 2	Reactive C	vanides	Solids	· · · · · · · · · · · · · · · · · · ·	Ŧ
none =	, - ,	mg/l	Omg/l	y	100%		=
Oil&Grease	TOC	Zinc	Copper	Nicke			
>1500 mg/l	>1500mg/i	<u>0</u> mg/l	Omg/l	0mg/i		7.4	
1000mg/1	- 1000mg/1	1 2015/1	<u> </u>	l Ding/I	· ··· ·	21.00	

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials	Concentration  Ranges are acceptable	Units or % %	
Oil Contaminated Booms, Pads, and Rags	30-90		
Glycol Contaminated Booms, Pads and Rags	30-90		
·			

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level D

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

X \*(Customer States no potential for RCRA Metals)

Approved

#### **SECTION 7: Incompatibilities**

**TCLP Metals:** 

Approval Number:

Please list all incompatibilities (if any): none

**SECTION 8:** Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Volatiles:	<u>X</u>		
TCLP Semi-Volatiles:	<u>X</u>		
Reactivity:	<u>X</u> <u>X</u>		
Corrosivity:	<u>X</u>		
Ignitability:	<u>X</u>		
SECTION 9: Generato	er's Certification		
attached description is comissions of composition	ed herein is based on  enerator knowled complete and accurate to the best of my lend of the properties exist and that all known or sure of all materials described by this document.	knowledge and ability to de espected hazards have been	etermine that no deliberate or willful
Authorized Signature:		Date:	10/16/07
Printed Name/Title:	-Ops MANAGER		
CES USE ONLY (DO NOT W	VRITE IN THIS SPACE)		2-07 n
Compliance Officer:	blen Olay a	Additional Information:	100° ( BA

Rejected

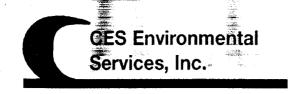
SI	ECTION 10: Waste Receipt Classification Under 40 CFR	137	•	en e	
Is	this material a wastewater or wastewater sludge?   YES	NO NO			
If	'Yes', complete this section.				
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRIATE CA	TEGORY,	GO TO THE N	EXT PAGE.
<u>Meta</u>	als Subcategory: Subpart A				
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equi	-	phosphati	ng operations	
Oils .	Subcategory: Subpart B				
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum source Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	S			
<u>Orga</u>	nics Subcategory: Subpart C				
	Landfill leachate Contaminated groundwater clean-up from non-petroleum so Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	urces	<b>液</b>		

(1)	If the	aste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	•
(2)		aste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in alues listed below, the waste should be classified in the metals subcategory.	exces
	Chron Coppe	m: 0.2 mg/L um: 8.9 mg/L : 4.9 mg/L 37.5 mg/L	
(3)		aste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, cop bove any of the values listed above, the waste should be classified in the organics subcategory.	pper, c
		Metals Subcategory	
		Oils Subcategory	
		Organics Subcategory	

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

2474 (Charles F.)



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/17/2007

Dear Chris Hill

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2474

Generator: Oceaneering International, Inc. (Charles Street)

Address: 11800 Charles Street Houston, TX 77041

Waste Information

Name of Waste: Oily water (same stream as CES 1081)

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Oil from equipment changes

Color: black/brown

Odor: oil like

pH: neutral

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 6 http://www.cesenvironmental.com

U.S. EPA ID No: TXD008950461

Fax: (713) 676-1676

TCEQ Industrial Solid Waste Permit No: 30948

ISWR No: 30900

SECTION 1: Genera	ntor Information				
Company:	Oceaneering Interna	tional, Inc.			
Address:	11800 Charles Stree				
City, State, Zip:	Houston, TX 77041				
Contact:	Chris Hill	<u>.</u>	• —	ps. Manager	
Phone No:			Fax No:		
24/hr Phone:	CES-713-676-1460		_		
U.S. EPA I.D. No:	CESOG NA		-	A A.	*
State I.D.	SESQG NA		SIC Code:	1A	
CECTION 4. Dilling	Tufoumation PCo	uma aa Aharra			
SECTION 2: Billing Company:	O CERTER		Tus		
Address:	119	1 Fm 5	<del>29</del>		
City, State, Zip:		FX 17041	~/		
Contact:	Ches	/-/// Title:			· · · · · · · · · · · · · · · · · · ·
Phone No:	CHEN	Fax No:			
					· · · · · · · · · · · · · · · · · · ·
SECTION 3: Genera	al Description of the	Waste			
SHOTION OFFICE					
Name of Waste: Oily					
<b>Detailed Description</b>	of Process Generating	g Waste: Oil from equipm	ent changes		
Dhygiaal States	⊠ Tionid	☐ Sludge ☐	Powder		
Physical State:	∐ Liquid		-		
	☐ Solid	Filter Cake	] Combination		
Color: black/brown	O	dor: <u>oil like</u>			
<del></del>					
Specific Gravity (wat	ter=1): <u>.95-1.0</u>	Density: 8 lbs/gal			
Layers:	⊠ Single-phase	Multi-phase			
	-				i agricu
Container Type:	⊠ Drum	▼ Tote □	Truck	Other (explain)	
Container Size:	<u>55 gal</u>				
	•			•	
Frequency:	☐ Weekly	Monthly □	Quarterly	Yearly	
Number of Units (co	<b>_</b>	Other:	Quarterry	rearry	
Texas State Waste Co	ode No: NA	-Recyclable Material			•
Proper U.S. DOT Sh	ipping Name:	Non-RCRA; Non-DO	T Regulated Materia	al	
Class: NA	UN/NA	: NA	PG: NA	RQ: N	NA .
•				<u></u>	
	I T		12		Tay 1
Flash Point	1 -	Reactive Sulfides	Reactive Cyanic		
>150		0mg/l	Omg/I	2-5%	
Oil&Grease >1500mg/l	TOC >1500mg/l		Copper	Nickel Omg/l	

#### SECTION 4: Physical and Chemical Data

			MPONENT usists of the	S TABLE following materials	e conte	Concentration Ranges are acceptable	Units or %
hydiauli			Stationer .			50-100	%
Motor O	il 🚆	**************************************			 1 <del></del> -	0-100	%
Water		-			 	0-50	%
-		-					
		=					

<b>SECTION 5: Safety Related Data</b>
---------------------------------------

If the handling of this waste requires the use of special protective equipment, please explain. Level D

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS (chlor-d-tect upon arrival)

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	$\overline{\mathbf{X}}$
TCLP Semi-Volatiles:	$\overline{\underline{\mathbf{x}}}$
Reactivity:	X
Corrosivity:	$\underline{\mathbf{X}}$
Ignitability:	<u>X</u>

#### **SECTION 9: Generator's Certification**

attached description is co	omplete and accurate to the best of my know	and/or analytical data. I hereby certify that the above a wledge and ability to determine that no deliberate or will acted hazards have been disclosed. I certify that the material	ful
	f all materials described by this document.	•	
Authorized Signature:		Date:	
Printed Name/Title:	ONS MANAGER	<b>,</b>	

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robbin Than Approved Rejected	Additional Information: Oilywhen 30/ 125 For
Approval Number: 2474	Trans 200° + FSC.

### SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? YES

⊠ NO

If 'Yes', complete this section.

## PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

100

<u>Metal</u>	s Subcategory: Subpart A	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 13	6 mg/l
	Waste acids and bases with or without met Cleaning, rinsing, and surface preparation Vibratory deburring wastewater	als solutions from electroplating or phosphating operations
	Alkaline and acid solutions used to clean n	netal parts or equipment
Oils S	Subcategory: Subpart B	
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sou Non-contact used glycols Aqueous and oil mixtures from parts clean Wastewater from oil bearing paint washes	rces
<u>Organ</u>	nics Subcategory: Subpart C	
	Landfill leachate Contaminated groundwater clean-up from Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol	non-petroleum sources
	Wastewater from paint washes Wastewater from adhesives and/or epoxies Wastewater from organic chemical produc	t operations
Ш	Tank clean-out from organic, non-petroleu	m sources

(1)	If the w	aste contains oil and grease at	or in excess	s of 100 mg/L	, the waste	should be cla	ssified in the oils	subcateg	ory.
(2)	If the w	aste contains oil and grease les	ss than 100	mg/L, and has	s any of the	pollutants lis	sted below in con	centration	s in excess
	of the v	alues listed below, the waste s	hou <b>ld</b> be cla	assified in the	metals sub	category.			udani .
Ē.	20.5		indian.		<u> </u>			and a second	<del>(11)</del>
-		m: 0.2 mg/L			-				
:		um: 8.9 mg/L							
=		4.9 mg/L		-	-				
7.	Nickel:	37.5 mg/L							
(3)		aste contains oil and grease les bove any of the values listed a						hromium,	copper, or
		Metals Subcategory			<u>.</u>				
		Oils Subcategory							
		Organics Subcategory							

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Cearneering Intl (churlest)
2475



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/17/2007

Dear Chris Hill

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2475

Generator: Oceaneering International, Inc. (Charles Street)

Address: 11800 Charles Street

Houston, TX 77041

#### Waste Information

Name of Waste: Oil filters and coolant filters - metal can type (same stream as

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Filters used to filter motor oil, coolants

Color: various

Odor: none pH: neutral

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Information						
Company:	Oceaneering Intern						
Address:	11800 Charles Stre						_
City, State, Zip:	Houston, TX 7704	<u> </u>					_
Contact:	Chris Hill		Title:	Ops Manager			_
Phone No:			Fax No:				_
24/hr Phone:	CES-713-676-1460	)	<del></del> .				
U.S. EPA I.D. No:	CESQG N	<del>^</del>		2 ^ A			4
State I.D.	CESQG N		SIC Code:	NA			
SECTION 2: Billing	Information Di	lama aa Ahaya					
Company:	Milor mation S	in Internation	oul Tree.				
Address:	11917	Em 579	<del>(4) J. (10)</del>	·			-
City, State, Zip:	Houston	7, 18 7704					-
Contact:	Chris Iti	Title:				<u> </u>	-
Phone No:		Fax No:					-
			·		······································		_
SECTION 3: Genera	al Description of the	Waste					
		ilters -Metal Can Type (Sang Waste: Filters used to					
Detailed Description	or rocess General	ing Waste. Inters about to	THE INOTE OF C	<del>SOIGITES</del>			
Physical State:	Liquid	☐ Sludge	☐ Powder				
	Solid	Filter Cake	☐ Combinatio	n			
w t							
Color: various	C	dor: <u>none</u>					
C	1) 10	TD 14 10 H /- 1					
Specific Gravity (wat	er=1): <u>1.2</u>	Density: 10 lbs/gal					
Layers:	⊠ Single-phase	☐ Multi-phase					
Contain on Turns	<b>⊠ D</b>	□ m-4- [	Truss also		ik au (aumlain)	`	
Container Type:	⊠ Drum	∐ Tote [	Truck		ther (explain)	,	
Container Size:	<u>55 gal</u>				<del></del>		
		<del></del>					
Frequency:	☐ Weekly	Monthly [	<b>Quarterly</b>	☐ Ye	arly	•	
Number of Units (con	-	Other:		<del></del>	ŭ		
Texas State Waste Co	·	-Recyclable Material					
Proper U.S. DOT Shi	pping Name:	Non-RCRA; Non-D					
Class: NA	UN/NA	A: NA	PG: NA	A	RQ:	NA =	
			<del></del>	···	_		
Flash Point	pH	Reactive Sulfides	Reactive C	'vanides	Solids		_
none	neutral	Omg/I	Omg/L	Junios	100%		
Oil&Grease	TOC	Zinc	Copper	Nickel	1 <del></del> ' *	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
>1500mg/l	>1500mg/l	Omg/l=	Omg/l	Omg/I	-	Monator to	

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Metal Cannister Filters	100	%
	:	

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.  $\underline{\text{Level }D}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): none

## **SECTION 8:** Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
<b>TCLP Volatiles:</b>	<u>X</u>
TCLP Semi-Volatiles:	X
Reactivity:	<u>X</u>
Corrosivity:	X
Ignitability:	X

#### **SECTION 9: Generator's Certification**

Printed Name/Title:

The information contained he	erein is based on 🛛 generator/knowledge	and/or analytical data. I hereby	y certify that the above and
attached description is comp	lete and accurate to the best of my know	wledge and ability to determine th	at no deliberate or willful
omissions of composition pro	operties exist and that all known or suspec	cted hazards have been disclosed.	I certify that the materials
tested are representative of all	l materials described by this document.		
_		<b>)</b> .	
Authorized Signature:		Date: 10/16/	67

Additional Information: 50 7 pm
Tunus 200 4 For
REC

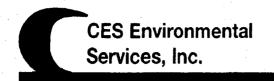
<u>SE</u>	CTION 10: Waste Receipt Classification Under 40 CFR 437
Is t	his material a wastewater or wastewater sludge?   YES   NO
If'	Yes', complete this section.
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE
<u>Meta</u>	ls Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils S	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organ</u>	ics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in exvalues listed below, the waste should be classified in the metals subcategory.	ces
	Chron Coppe	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L r: 37.5 mg/L	
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, coppe above any of the values listed above, the waste should be classified in the organics subcategory.	er, o
		Metals Subcategory	
		Oils Subcategory	
		Organics Subcategory	

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

7 8 - 4 - 24 TLRS



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 10/19/2007

Dear Ricardo Salias

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2476

**Generator:** GATX (Hearne) **Address:** 1401 W. Brown St.

Hearne, TX 77859

#### Waste Information

Name of Waste: Used oil TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Various oils from machine operations

Color: dark

Odor: hydrocarbon

pH: neutral

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES-Environmental Services, Inc.

#### SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges acceptable	or %
Used Oil (hydraulic, motor)	99-100	%
Water	0-1	%
SECTION 5: Safety Related Data		i i

If the handling of this waste requires the use of special protective equipment, please emiliain. Standard

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the wash approval package.

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

### SECTION 8: Generator's Knowledge Docu plentation

Chlon-Detect

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED balled upon the following generator knowledge:

**TCLP Metals:** TCLP Volatiles: **TCLP Semi-Volatiles:** Reactivity: Corrosivity: Ignitability:

### SECTION 9: Generator's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby ertify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. Acertify that the materials tested are representative of all materials distribled by this document.

1 te: 10/18/7 Authorized Signature: Printed Name/Title: Ricardo S

	ONLY (DO NOT WRITE ince Officer: Public	01	1_
Date:	10-19-07	Approvei	Rejected
=			

Process Facility Infinition:

Approval Number: 2476

10/18	3/2007 14:37 9792793020	GATX HEARNE		PAGE	E 04
			j.		
ee.	CTION 10: Waste Receipt Classification U	nder 40 CFR 437			
Įs th	is material a wastewater or wastewater sludg	? ☐ YES	## 		
TE '7	Yes', complete this section		1, 8 11	2	
				TO ACE	
PLI	EASE CHECK THE APPROPRIATE BOX.	<i>IF NO APPROPRIATE CATEGORY, G</i>	IO THE NEX	AGE.	
Metal	s Subcategory: Subpart A	,			
			· · · · · · · · · · · · · · · · · · ·		
冶	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges				
	Chromate wastes	•			
	Air pollution control blow down water and s	udges	# ·		
	Spent anodizing solutions				•
	Incineration wastewaters				
H	Waste liquid mercury Cyanide-containing wastes greater than 136	ma/1			
H	Waste acids and bases with or without metal	g	1		
Ħ	Cleaning, rinsing, and surface preparation so	lutions from electroplating or phosphating	perations		
	Vibratory deburring wastewater				
	Alkaline and acid solutions used to clean me	tal parts or equipment	6. 6. 6.		
Oils S	ubcategory: Subpart B				
$\Box$	Used oils	·	*		
Ħ	Oil-water emulsions or mixtures				
	Lubricants		• • •		
	Coolants				
	Contaminated groundwater clean-up from p	etroleum sources			
H	Used petroleum products Oil spill clean-up		<u>;</u> :		
H	Bilge water				
Ħ	Rinse/wash waters from petroleum sources		•		
	Interceptor wastes				
	Off-specification fuels	•	•		
님	Underground storage remediation waste		i .		
H	Tank clean-out from petroleum or oily sour Non-contact used glycols	, ·	v Ed		
H	Aqueous and oil mixtures from parts cleaning	g operations	: . :		
	Wastewater from oil bearing paint washes		<u>:</u>		
<u>Orgai</u>	sics Subcategory: Subpart C	İ			
	Landfill leachate				
H	Contaminated groundwater clean-up from	on-petroleum sources	!		
Ħ	Solvent-bearing wastes	•		*	
	Off-specification organic product				
	Still bottoms				
	Byproduct waste glycol				
H	Wastewater from paint washes Wastewater from adhesives and/or epoxies	formulation		#	
H	Wastewater from organic chemical product	operations	Ā		
Ħ	Tank clean-out from organic, non-petroleur	sources	· · · · · · · · · · · · · · · · · · ·		
	* * * * * * * * * * * * * * * * * * * *	· ·	<b></b>		18
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	The state of the s	NEW PROPERTY OF THE PROPERTY O		· · · · · · · · · · · · · · · · · · ·	And the second s

				4.5	
(1)	If the	waste contains oil and grease	at or in excess of 100 mg/L, the waste sl	rould by classified	in the ills subcategory.
(2)			less than 100 mg/L, and has any of the p e should be classified in the metals subca		low in concentrations in exces
	Chron Coppe Nickel	ium: 0.2 mg/L nium: 8.9 mg/L ex: 4.9 mg/L l: 37.5 mg/L			
(3)			less than 100 mg/L, and does not have c d above, the waste should be classified in		
		Metals Subcategory			
		Oils Subcategory			
		Organics Subcategory			
ECTI	ON 11:	Additional Instructions			

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease concentrations. This will be prior to acceptance

The generator will be responsible for the last of the analysis.



GATX Rail

PO Box 969 Austin Highway # 79 Hearne, TX 77859

To Dana Carter

COMPANY CES Environmental Services

TELEPHONE (713) 676-1460

FAX (713) 676-1676

FROM Ricardo Salias

DATE October 18, 2007 TIME 2:35 PM

PAGES 05

Find attached the Waste profile form signed.

Thanks.

-Ricardo-

**FAX** 

Ricardo Salian Cleanng Supervisor

Tel: 979.279.7053 Fax: 979.279.5664 cardo-salias@gam.com



# **Material / Product Approval Letter**

Date 2/21/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2433

Expiration Date 2/21/2010

**Producer:** CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

**Material / Product Information** 

Name of Material / Product Spent caustic (KOH - Potassium Hydroxide), high c

**Container Type:** 

**Detailed Description of Process Generating or Producing the Material / Product:** 

Material received from customers

Color: Varies

Odor: Sulfur

**pH:** >12.5

**Physical State:** 

Incompatibilities: Strong acids

Safety Related Data/Special Handling:

std PPE (safety glasses, che suit, gloves, goggles)

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater					
Company :	CES Environmental Se	ervices, Inc.			
Address :	4904 Griggs Rd 4904	Griggs Road			
City, State, Zip:	Houston TX 77021				
Contact :	Matt Bowman		Title :		
Phone No :	(713) 676-1460	· · · · · · · · · · · · · · · · · · ·	Fax :	·	
24 / HR Phone :	·				
U.S EPA I.D No :	TXD008950461	·			
State I.D :	30900		SIC Code		
SECTION 2: Billing	g Information			4	
Company :	CES Environmental Se	ervices, Inc.	·		
Address :	4904 Griggs Rd 4904	Griggs Road			
City, State, Zip :	Houston TX 77021				
Contact :			Title :		
Phone No :	(713) 676-1460		Fax:		
	ral Description of the Mate Il / Product :Spent caus		Hydroxide), high concentrate	tion	
Name of Mateira Detailed Descrip Material received	Il / Product :Spent causotion of the Process Ge	tic (KOH - Potassium	Hydroxide), high concentrating the Material / Product:    Powder	tion	
Name of Mateira	Il / Product : Spent causotion of the Process Ge from customers	tic (KOH - Potassium	g the Material / Product:	tion	
Name of Mateira Detailed Descrip Material received Physical State:	Il / Product :Spent causotion of the Process Ge from customers	tic (KOH - Potassium nerating or Producir	g the Material / Product:	tion Sulfur	
Name of Mateira Detailed Descrip Material received Physical State:	old / Product : Spent cause otion of the Process Ge from customers  Liquid  Solid	nerating or Producir  Sludge	g the Material / Product:  Powder  Combination		lbs / gal
Name of Mateira Detailed Descrip Material received Physical State: Color:	old / Product : Spent cause otion of the Process Ge from customers  Liquid  Solid	tic (KOH - Potassium nerating or Producir Sludge Filter Cake Varies 1.2-1.3	g the Material / Product:  Powder  Combination  Odor:	Sulfur	lbs / gal
Name of Mateira Detailed Descrip Material received Physical State:  Color: Specific Gravity Does this material	old / Product : Spent cause oftion of the Process Ge from customers  Liquid  Solid  (Water=1) :	tic (KOH - Potassium nerating or Producir Sludge Filter Cake Varies 1.2-1.3 c compounds?	Powder Combination Odor: Density: Yes No	Sulfur	lbs / gal
Name of Mateira Detailed Descrip Material received Physical State:  Color: Specific Gravity Does this material	old / Product : Spent causorition of the Process Gentrom customers  Liquid  Solid  (Water=1) :	tic (KOH - Potassium nerating or Producir Sludge Filter Cake Varies 1.2-1.3 c compounds?	Powder Combination Odor: Density: Yes No	Sulfur 8.5-9.5	lbs / gal
Name of Mateira Detailed Descrip Material received Physical State:  Color: Specific Gravity Does this material Layers:	If / Product : Spent causotion of the Process Gentrom customers  Liquid Solid  (Water=1) :  contain any total phenolication of the Process Gentromers  Single-Phas	tic (KOH - Potassium nerating or Producir Sludge  Filter Cake  Varies  1.2-1.3 c compounds? ated phenolic compoun	Powder Combination Odor: Density: Yes No	Sulfur 8.5-9.5 <b>☑</b> No	lbs / gal
Name of Mateira Detailed Descrip Material received Physical State:  Color: Specific Gravity Does this material	If / Product : Spent causotion of the Process Gentrom customers  Liquid Solid  (Water=1) :  contain any total phenolication of the Process Gentromers  Single-Phas	tic (KOH - Potassium nerating or Producir Sludge  Filter Cake  Varies  1.2-1.3 c compounds? ated phenolic compoun	g the Material / Product:  Powder Combination  Odor: Density: Yes V No ds?	Sulfur 8.5-9.5 <b>☑</b> No	lbs / gal
Name of Mateira Detailed Descrip Material received Physical State:  Color: Specific Gravity Does this material Does this material Layers: Container Type:	If / Product : Spent causorion of the Process Gentrom customers  Liquid Solid  (Water=1) :  contain any total phenolic contain any para substitution of the Process Gentrom of the Proc	tic (KOH - Potassium nerating or Producir Sludge  Filter Cake  Varies  1.2-1.3 c compounds? ated phenolic compoun	g the Material / Product:  Powder Combination  Odor: Density: Yes V No ds?	Sulfur 8.5-9.5 <b>☑</b> No	lbs / gal

Bagt.

-504 Criegoldensk

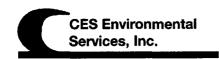
4.14.4

Flash Point	рН	Reactive Sulfides	Reactive Cyanides	Solids 8
na	>12.5	mg/l	mg/l	<0.5 %
Oil and Grease	тос	Zinc Oil an	See Copper	Nickel 2 A
<del></del> mg/l	mg/l	mg/l	A design of	mg/l

	COMPONENTS TABLE		Concentration	Units
The m	aterial / product consists of the following	g materials	Ranges are acceptable	or %
	Potassium hydroxide		20-45	%
	water		55-80	%
	Potassium carbonate	er e	0-2	%
	Potassium chloride		0-2	%

•		E.	Safet	D-I		D-4-
	 IICJN	D:	Sate	v Ke	ıareα	Data

SECTION 5: Safety Related Data				
If the handling of this material / product requires the u	se of special protec	ctive equipment, p	ease explain.	
std PPE (safety glasses, che suit, gloves, goggles)	Samuel Comment		•	, de la companya della companya della companya de la companya della companya dell
				e e e e e e e e e e e e e e e e e e e
SECTION 6: Attached Supporting Documents				
List all documents, notes, data, and/or analysis attach	ed to this form as p	part of the material	/ product profile.	-:
MSDS	•			
SECTION 7: Incompatibilities				
Please list all incompatibilities (if any):				
Strong acids				
<b>C</b>				
	· ·			
SECTION 8: Material Producer's Certification				
The information contained herein is based on general above and attached description is complete and accurate deliberate or willful omissions of composition propertic disclosed. I certify that the materials tested are represented.	ate to the best of miles exist and that al	ny knowledge and a Il known or suspec	ted hazards have be	nat no
1/0				
Authorized Signature :		Date :	2/20/2008	
Printed Name / Title : Gary Lenertz /				
CES USE ONLY (DO NOT WRITE IN THIS SPACE)		Process	Facility Information	:
Compliance Officer: Prabhakar Thangudu	hhur Thy	d		
Date: 2/21/2008 Status: Approved	Rejected			
Approval Number : 2433				ļ



### PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	CES charge \$ 600.00 in frt
2.	Contamination Limits (maximum limit before surcharges apply):
	MAX 0.5% Solids into Sheen Hydrocarbons
3.	Surcharge Pricing:
	<b>№</b> A
4.	Special Testing Requirements:
	SG, % NAOH(X CONVERT to % KOH) % Solids, Uisuzl
5.	Treatment and Handling Protocol:
	Neep Splitter 1 3 Splitter 2 caustic Seperate until alternate use is approved by director of sales
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);

## **Material Safety Data Sheet**

#### **WEAK CAUSTIC SOLUTION - S1**

SECTION	1	<ul> <li>Chemical Product and Company Identification</li> </ul>
SECTION	2	<ul> <li>Composition, Information on Ingredients</li> </ul>

SECTION 3 – Hazards Identification SECTION 4 – First Aid Measures SECTION 5 – Fire Fighting Measures

SECTION 6 - Accidental Release Measures

SECTION 7 - Handling and Storage

SECTION 8 - Exposure Controls and Personal Protection

SECTION 9 - Physical and Chemical Properties

SECTION 10 - Stability and Reactivity SECTION 11 - Toxicological Information SECTION 12 - Ecological Information SECTION 13 - Disposal Considerations

SECTION 14 - Transport Information

SECTION 15 - Regulatory Information

SECTION 16 - Other Information

#### SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

1.1 Product Name Weak Caustic Solution Chemical Family Inorganic Salt Solution

Plant Source Splitter I Unit Formula NA (mixture)

1.2 Manufacturer Enterprise Products Operating LP

10207 FM 1942

Mont Belvieu TX 77580

281-385-4200

1.3 Emergency Contact Matt Bowman 713-826-1329

CHEMTREC 800-424-9300

### SECTION 2 - COMPOSITION and INFORMATION ON INGREDIENTS

#### 2.1 Chemical Ingredients (% by wt)

#### Typical Analysis

 Sodium Sulfide (Na2S)
 CAS#: 1313-82-2 0-1% 

 Sodium Hydroxide (NaOH)
 CAS#: 1310-73-2 0-15% Typical 6 to 7%

 Sodium Chloride
 CAS#: 7647-14-50 0-7% 

 Sodium Carbonate (Na2CO3)
 CAS#: 497-19-8 0-4% 

Potassium Hydroxide (KOH) CAS#: 497-19-8 0 - 4%

Water 0 - 4%

VAS#: 497-19-8 0 - 4%

VAS#: 497-19-8 0 - 4%

remaining %

FOR ADDITIONAL INFORMATION SEE SECTION 9

**MSDS Weak Caustic Solution - S1** 

12/18/07

#### - HAZARDS IDENTIFICATION SECTION

NFPA: Health – 3 Flammability – 0

Reactivity – 1



#### **EMERGENCY OVERVIEW**

Warning: Solution is highly alkaline.

May evolve small amounts of hydrogen sulfide, a highly toxic gas. EYE contact will cause marked eye irritation and possible corneal damage. SKIN contact will result in irritation and possible corrosion of the skin. INGESTION will irritate and burn the mouth, throat and the gastrointestinal tract; contact with stomach acid will cause hydrogen sulfide vapors to be released. HEATING or ACID contact will cause hydrogen sulfide gas to evolve.

### 3.1 POTENTIAL HEALTH EFFECTS

EYE: Contact with the eyes will cause marked eye irritation and possibly severe corneal damage.

**SKIN CONTACT:** Contact with the skin will cause skin irritation or a burning sensation. Prolonged contact will result in corrosion of the skin.

**SKIN ABSORPTION:** Absorption is unlikely to occur.

INGESTION: Ingestion will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved.

**INHALATION:** Product solution and vapors contain some highly toxic hydrogen sulfide gas. Exposure to this gas causes headaches, nausea, dizziness and vomiting. Continued exposure can lead to loss of consciousness and death.

CHRONIC EFFECTS - CARCINOGENICITY: Not listed as a carcinogen by NTP, IARC or OSHA.

#### SECTION 4 - FIRST AID MEASURES

- 4.1 EYES: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye. Obtain immediate medication.
- 4.2 **SKIN:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention.
- 4.3 INGESTION: DO NOT INDUCE VOMITING. If victim is conscious, immediately give 2 to 4 glasses of water. If vomiting does occur, repeat fluid administration. Obtain immediate medical attention.
- 4.4 INHALATION: Remove victim form contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

MSDS Weak Caustic Solution - S1

12/18/07

#### SECTION 5 - FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

METHOD USED: NA

5.2 FLAMMABLE LIMITS: Hydrogen Sulfide

FLASH POINT: Not Flammable

LFL: 4%

UFL: 44%

- 5.3 EXTINGUISHING MEDIA: Water spray or foam or as appropriate for combustion involved in fire.
- 5.4 FIRE and EXPLOSIVE HAZARDS: Solution is non-flammable. However if these solutions are exposed to heat or acids, hydrogen sulfide will be released and may form explosive mixtures with air (see above). Keep containers and/or storage vessels in fire area cooled with water spray. Heating may cause the release of hydrogen sulfide vapors.
- 5.5 FIRE FIGHTING EQUIPMENT: Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent) and full protective gear.

#### SECTION 6 - ACCIDENTIAL RELEASE MEASURES

- 6.1 SMALL RELEASES: Isolate for 75 feet. Confine area to qualified response personnel. Wear proper Personnel Protective equipment (See Section 8). Confine release material by berming or diverting its path Absorb on sand, earth or other inert dry absorbent. Do not allow into sewer, storm drains or any waterway. Oxidize residual reactive sulfides with a weak (3-5%) hydrogen peroxide solution to stop the release of toxic hydrogen sulfide. Remove contaminated soil and dispose of in accordance with all governmental regulations.
- 6.2 LARGE RELEASES: Activate Emergency Response Plan procedures. Isolate release area for 500 feet. Confine area to qualified response personnel. Wear proper Personnel Protective Equipment (See Section 8). Shut off release, if safe to do so. Dike spill area to prevent runoff into sewers, drains (potential toxic and explosive mixtures of hydrogen sulfide in confined spaces) or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (See 6.1).

#### SECTION 7 - HANDLING and STORAGE

- 7.1 HANDLING: Wear proper protective equipment (See Section 8). Avoid breathing product vapors. Avoid contact with skin and eyes. Use only in a well ventilated area. Dilute product only in enclosed containers. Wash thoroughly after handling.
- 7.2 STORAGE: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures [<80 F (27 C)]. (See Section 10.4 for materials of construction)

MSDS Weak Caustic Solution - S1

12/18/07

### SECTION 8 - EXPOSURE CONTROLS and PERSONAL PROTECTION

- 8.1 RESPIRATORY PROTECTION: If working near open container or storage vessel opening or open tank truck dome cover and, the concentration of sodium sulfide is greater than 500 ppm have available self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent). For concentrations of sodium sulfide below 500 ppm, this does not require the use of a self-contained breathing apparatus. For concentrations below 500 ppm one should have available a respirator with a cartridge rated for hydrogen sulfide.
- 8.2 SKIN PROTECTION: Neoprene rubber gloves, chemical suit and boots should be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded.
- 8.3 EYE PROTECTION: Chemical goggles and a full face shield.

8.4 EXPOSURE GUIDELINES: OSHA ACGIH

TWA STEL

Hydrogen Sulfide 20 ppm (ceiling) 10 ppm (ceiling)

8.5 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub process or storage vessel vapors with caustic solution. Maintain eye wash safety shower in areas where chemical is handled.

### SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

- 9.1 APPEARANCE:
- 9.2 ODOR: Hydrocarbon (mercaptan), possibly hydrogen sulfide (rotten egg) odor. Sulfides Less than 100 ppm (Typical 10 to 50 ppm)
- 9.3 BOILING POINT: Not Determined
- 9.4 TOC: Typical 15,000 to 30,000 ppm
- 9.5 OIL and Grease: Typical 20 to 40 ppm
- 9.6 VAPOR DENSITY: (Air = 1.0) 1.17
- 9.7 SOLUBILITY IN WATER: Complete
- 9.8 SPECIFIC GRAVITY: 1.03 1.3 (8.59 10.83 lbs/gal)
- 9.9 pH: 11.5 13.5
- 9.10 CHLORIDES: Less than 60,000 ppm

### SECTION 10 - STABILITY and REACTIVITY

- 10.1 STABILITY: This is a stable material.
- 10.2 HAZARDOUS POLYMERIZATION: Will not occur.

MSDS Weak Caustic Solution - S1

12/18/07

- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Heating product will evolve H2S gas: fire conditions will cause the production of sulfur dioxide. Hydrogen sulfide (4 44%) may form a flammable mixtures with air.
- 10.4 INCOMPATIBILITY: Acids will cause the release of highly toxic hydrogen sulfide. Sulfidic caustic solution is not compatible with copper, zinc, aluminum or their alloys (i.e. bronze, brass, galvanized metals, etc.). Corrosive to steel above 150 F (65.5 C). These materials of

### SECTION 10 - STABILITY and REACTIVITY (Continued)

construction should not be used in handling systems or storage containers for this product. (See Section 7.2 Storage)

### SECTION 11 - TOXICOLOGICAL INFORMATION

- 11.1 ORAL: Data not available.
- 11.2 DERMAL: Data not available.
- 11.3 INHALATION: INH-RAT LC 50: 444 ppm (hydrogen sulfide)
- 11.4 CHRONIC and CARCINOGENICITY: No evidence available.
- 11.5 TERATOLOGY: Data not available.
- 11.6 REPRODUCTION: Data not available.
- 11.7 MUTAGENICITY: Data not available.

### SECTION 12 - ECOLOGICAL INFORMATION

None Available

### SECTION 13 – DISPOSAL CONSIDERATIONS

If released to the environment for other than its intended purpose, this product contains some reactive sulfides but not a sufficient quantity to meet the definition of a D003, hazardous waste. The pH may be high enough to meet the definition of a corrosive waste, D002.

### **SECTION 14 - TRANSPORT INFORMATION**

- 14.1 DOT SHIPPING NAME: Corrosive liquids, n.o.s.
- 14.2 DOT HAZARD CLASS: 8
- 14.3 UN/NA NUMBER: UN1760
- 14.4 PACKING GROUP: II
- 14.5 DOT PLACARD: Corrosive

MSDS Weak Caustic Solution - S1

12/18/07

14.6 DOT LABLE(s): Corrosive

编点形

- 14.7 IMO SHIPPING NAME Sodium Hydroxide Solution
- 14.8 RQ (REPORTABLE QUANTITY): 1,000 lbs (454 Kg) 100% basis (Approx. 538 gals)
- 14.9 USCG BARGE CERTIFICATION: SSH (sodium sulfide, hydrosulfide solutions, H2S 15 ppm or less). SSI (sodium sulfide, hydrosulfide solutions, H2S greater than 15 ppm but less than 200 ppm).

SIVE

### SECTION 15 - REGULATORY INFORMATION

- 15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- 15.2 SARA TITLE III. a. EHS (Extremely Hazardous Substance) List:
  - b. Sections 311 and 312 (Tier I, II) Categories:

Immediate (acute)

Fire

Sudden Release

Reactivity

Delayed (chronic)

Yes

Yes

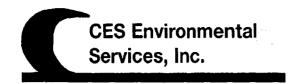
- c. Section 313 (Toxic Release Report-Form R): No
- d. TPQ (Threshold Planning Quantity): No
- 15.3 CERCLA and SUPERFUND: RQ (Reportable Quantity) 1,000 lbs
- 15.4 TSCA (Toxic Substance Control Act) Inventory List: Yes
- 15.5 RCRA (Resource Conservation and Recovery Act) Status: Yes
- 15.6 WHMIS (Canada) Hazard Classification: E, D1
- 15.7 DOT HAZARDOUS MATERIAL: (See Section 14) Yes
- 15.8 CAA HAZARDOUS AIR POLLUTANT (HAP): No

### **SECTION 16 – OTHER INFORMATION**

REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-1993.

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSAREY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE THE MATERIAL SAFETY DATA SHEET PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

CES 2434



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

### **Material / Product Approval Letter**

Date 2/21/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2434

Expiration Date 2/21/2010

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Ethanol

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Ethanol from various sources

Color: colorless

Odor: mild

pH: na

**Physical State:** 

Incompatibilities: see msds, avoid oxidizing agents, sulphuric acid, nitric acid

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. DR 2-20-08

# CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	rial Producer Inform	ation	<u>1</u>				
Company:	CES Environmenta	l Ser	vices				
Address:	4904 Griggs Rd						
City, State, Zip:	Houston, TX						
Contact:	Matt Bowman				Title:		
Phone No:	713-676-1460			1	Fax No:	713-676-	1676
24/hr Phone:							
U.S. EPA I.D. No:							
State I.D.					SIC Code:		
SECTION 2: Billing Information – Same as Above Company: Address: City, State, Zip:							
Contact:			Title:				
Phone No:			Fax No:	:			
SECTION 3: Gener	ral Description of the	Ma	terial / Product				
Name of Material / l Detailed Description		ing o	r Producing the Ma	ateria	l / Product: <u>E</u>	thanol	
Physical State:	∠ Liquid		Sludge		Powder		-
I mysical State.		吕	3				
	☐ Solid	L	Filter Cake	Ш	Combination		
Color: colorless	(	)dor:	mild				
Specific Gravity (wa	nter=1): <u>0.79-0.85</u>	D	ensity: <u>6.58-8.34</u>				
Does this material co	ontain any total phe	olic	compounds? 🔲 Y	es	⊠ No		
Does this material co	ontain any para subs	stitut	ed phenolic compo	unds?	Yes 🖂	No	
Layers:	⊠ Single-phase		☐ Multi-phase				
Container Type:	□ Drum		Tote	$\boxtimes$	Truck		Other (explain)
Container Size:	_				<u>5000 gal</u>		
<b>T</b>	[		B. (f 41, Y	<del>-</del> 7	0		<b>\$7.\$</b>
Frequency:	☐ Weekly	$\boxtimes$	*		Quarterly	Ш	Yearly
Number of Units (co	ontainers): 1		Other:				
Proper U.S. DOT SI	hipping Name:	<del></del>	Ethanol, 3, UN117	70, II	<del></del>		
Class: 3	UN/N	A:	UN 1170		PG: II		RQ: none
	~11/11						K

Flash Point	pН	N/A	N/A	Solids
<u>52-60 deg F</u>	<u>n/a</u>			<u>&lt;1</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
N/amg/I	n/amg/l	<u>n/a</u> mg/l	n/amg/l	n/amg/l

### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units or %	
The material / product consists of the following materials	Ranges are acceptable		
Ethanol	70-100	%	
Water	0-30	%	
		<u> </u>	
		<b></b>	

### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain. standard ppe

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.  $\underline{msds}$ 

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

see msds. avoid oxidizing agents, sulphuric acid, nitric acid

### **SECTION 8: Material Producer's Certification**

attached description is complete and	d accurate to the best of my know exist and that all known or suspect	nd/or  analytical data. I hereby certifully and ability to determine that no ted hazards have been disclosed. I certifully analysis and the second section and the second	deliberate or willful
Authorized Signature:	NA	Date:	
Printed Name/Title:no signa	ture required		
CES USE ONLY (DO NOT WRITE IN TH	IS SPACE)		<u> </u>
Technical Manager: Kehlung	18hanga		
Technical Manager: Kehlunder: 2-21-08	Approved Rejected		
Approval Number: 2434			



### PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	charge \$0.75/gal, no trans
2.	Contamination Limits (maximum limit before surcharges apply):
	less than 1% solids
3.	Surcharge Pricing:
	n/a
4.	Special Testing Requirements:
	check specific gravity & verify ethanol odor
5.	Treatment and Handling Protocol:
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



### PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
8.	Management for Product Recovered/Recycled (if applicable);
	redirect to customer according to job write-up.



## **Material Safety Data Sheet**

### Section 1. Chemical Product and Company Identification

Product Name

**ETHANOL** 

MSDS#

Historic MSDS#:

0000001014

None.

Supplier

BP West Coast Products LLC

300 Oceangate

Long Beach, CA 90802-4341

U.S.A.

**EMERGENCY HEALTH** 

INFORMATION:

1 (800) 447-8735

EMERGENCY SPILL

1 (800) 424-9300

INFORMATION:

CHEMTREC (USA)

OTHER PRODUCT INFORMATION

1 (866) 4 BP - MSDS

(866-427-6737 Toll Free - North America)

email: bpcares@bp.com

### Section 2. Composition, Information on Ingredients

Name

CAS#

% by Weight **Exposure Limits** 

**ETHANOL** 

64-17-5

>98

ACGIH TLV (United States, 2000).

TWA: 1880 mg/m<sup>3</sup> TWA: 1000 ppm

OSHA PEL 1989 (United States, 1989).

TWA: 1900 mg/m<sup>3</sup>

TWA: 1000 ppm

OSHA PEL (United States, 1971).

TWA: 1900 MGM3 TWA: 1000 ppm

### Section 3. Hazards Identification

Physical state

Liquid.

Color

Colorless.

**Emergency Overview** 

WARNING!

FLAMMABLE LIQUID AND VAPOR. MAY CAUSE EYE IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

If swallowed, may cause headaches, dizziness, drowsiness and nausea, and may lead to unconsciousness.

Do not ingest. Avoid contact with skin and clothing. Do not breathe vapor or mist. Keep container closed. Use

with adequate ventilation. Wash thoroughly after handling.

POTENTIAL HEALTH

EFFECTS

Eyes

May cause eye irritation.

Skin

Unlikely to cause appreciable irritation even on repeated contact. Unlikely to be absorbed in harmful amounts. May cause respiratory tract irritation. Inhalation may cause headaches, dizziness, drowsiness, and nausea.

Inhalation Ingestion

Swallowing may have the following effects: central nervous system depression, nausea/vomiting, symptoms similar

to alcohol intoxication..

See Toxicological Information (section 11)

ETHANOL Page: 2/6

Section 4. First Aid Measures

Eye Contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if

imitation occurs.

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash

clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an

unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire Fighting Measures

Flammability of the Product Flammable liquid and vapor.

Autoignition Temperature The lowest known value is 398.9°C (750°F) (ETHANOL).

Flash Points CLOSED CUP: 11 to 14°C (51.8 to 57.2°F).

Flammable Limits LOWER: >1.3%

Products of Combustion These products are carbon oxides (CO, CO2).

Unusual fire/explosion Highly flammable in presence of open flames, sparks and static discharge.

Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to

source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Fire Fighting Media and Instructions

hazards

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: DO NOT FIGHT FIRE WHEN IT REACHES MATERIAL. Withdraw from area and let the fire burn. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. First move people out of line-of-sight of the scene and away from windows. Cool containing vessels with water jet in order to

prevent pressure build-up, autoignition or explosion.

Protective Clothing (Fire) Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

#### Section 6. Accidental Release Measures

Large Spill and Leak

Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Stop leak if without risk. Use suitable protective equipment (Section 8). For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

### Section 7. Handling and Storage

Handling Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. To avoid

fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling)

equipment.

Storage Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightty

closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8. Exposure Controls, Personal Protection

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their

respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the

work-station location.

**Personal Protection** 

Eyes Avoid contact with eyes. Chemical splash goggles.

Skin and Body Avoid contact with skin. Wear clothing and footwear that cannot be penetrated by chemicals or oil.

Respiratory Use with adequate ventilation. If ventilation is inadequate, use NIOSH certified respirator which will protect

against organic vapor.

Hands Wear gloves that cannot be penetrated by chemicals or oil.

Chemical name Exposure Limits

ETHANOL

Page: 3/6

ETHANOL

ACGIH TLV (United States, 2000).

TWA: 1880 mg/m<sup>3</sup>

TWA: 1000 ppm

OSHA PEL 1989 (United States, 1989).

TWA: 1900 mg/m<sup>3</sup> TWA: 1000 ppm

OSHA PEL (United States, 1971).

TWA: 1900 MGM3 TWA: 1000 ppm

Consult local authorities for acceptable exposure limits.

#### Section 9. Physical and Chemical Properties

Physical state

Liquid.

Odor

Alcohol like.

рH

Not available.

Color

Colorless.

Boiling/Condensation Point >76°C (168.8°F)

Melting/Freezing Point

May start to solidify at -113.84°C (-172.9°F) based on data for: ETHANOL.

Specific Gravity

0.789 to 0.806 (Water = 1)

Vapor Pressure

Not available.

Vapor Density

1.59 to 1.62 (Air = 1)

**Odor Threshold** 

Not available.

**Evaporation Rate** 

1.7 (ETHANOL) compared to (n-BUTYL ACETATE=1)

LogK<sub>ow</sub>

< 1 (-0.32 Ethanol)

**Dispersion Properties** 

See solubility in water.

Solubility

Soluble in cold water.

#### Section 10. Stability and Reactivity

Stability and Reactivity

The product is stable.

Conditions to avoid

High temperatures. Avoid all possible sources of ignition (spark or flame).

Incompatibility with

Various Substances

Materials to avoid: oxidizing agents, Sulphuric acid, Nitric acid.

**Hazardous Decomposition** 

**Products** 

Not available

Hazardous Polymerization Will not occur.

### Section 11. Toxicological Information

Acute toxicity

Acute oral toxicity (LD50): 3450 mg/kg (Mouse) (Ethanol).

Chronic toxicity

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

REPRODUCTION TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [ETHANOL].

Other information

Irritancy - Skin: A single 4h semi-occlusive application to intact rabbit skin produced minimal signs of irritation (mean scores for erythema or oedema less than 2).

Irritancy - Eye. The eye irritancy has been investigated by OECD Test method 405. Single application to the rabbit eye produced conjunctival imitation and transient comeal damage. eye. The effect was insufficient to warrant classification as an eye irritant.

Sensitization: The material is not sensitizing in standard animal tests. In rare cases non -irritant contact dermatitis has been identified in humans after skin exposure to this material. Such cases have been identified as delayed hypersensitivity or as urticarial reactions. In reactive individuals such reactions may also be elicited by drinking alcoholic drinks or by cross reaction to certain other alcohols.

**ETHANOL** Page: 4/6

> Sub-acute/Subchronic Toxicity: It has been shown in many animal experiments that the repeated oral consumption of large doses of ethanol can lead to damage in practically all organ systems. The main manifestations of the toxic effects are shown by the liver.

Chronic toxicity/carcinogenicity: No convincing evidence of carcinogenic effects in animal studies.

Genotoxicity: The product has been tested in a number of bacterial and mammalian systems. The product did not exhibit mutagenic activity in the following systems (with and without metabolic activation): Drosophila. Salmonella typhimurium. Human lymphocytes in vitro. Most in vitro tests and all in vivo tests for chromosome abberations report negative results. The product did not induce micronuclei in standard bone marrow tests in vivo. There is some evidence that ethanol both induces SCE in vivo and can also act as an aneugen at high doses. Overall, there is no robust evidence that ethanol is a genotoxic hazard according to the criteria normally applied for the purpose of classification and labelling of industrial chemicals.

Reproductive/Developmental Toxicity: Adverse effects on the male reproductive system have been reported in laboratory animals following repeated exposure to high concentrations. Developmental effects have been observed in laboratory animals following large oral exposures.

Human data: In humans excessive consumption of alcoholic beverages during pregnancy is associated with the induction of Fetal Alcohol Syndrome in the offspring. Reduced birth weight and physical and mental defects occur. There is no evidence that such effects might be caused by exposures other than direct ingestion of alcoholic drinks. In humans high lifetime consumption of alcoholic beverages can be associated with certain cancers and effects on the liver. There is no evidence that these can be caused by exposure other than direct ingestion of alcoholic drinks (IARC 1988).

### Section 12. Ecological Information

**Ecotoxicity** 

Practically non-toxic to aquatic organisms. Ecological testing has not been conducted on this product by BP.

Persistence Potential

This product is readily biodegradable.

Mobility

This product is likely to volatize rapidly into the air because of its high vapor pressure. The product is poorly

absorbed onto soils or sediments.

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

#### Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

#### Section 14. Transport Information

**DOT** Classification

Ethanol, 3, UN1170, II

Marine Pollutant

Not pollutant.

Special Provisions for

Transport

ADR/RID Classification

UN1170 UN number

Proper shipping name

Ethanol

ADR/RID Class **Packing Group**  3 Н

**IMO/IMDG Classification** 

Proper shipping name

Ethanol

**IMDG Class** 

3

UN number

UN1170

ETHANOL Page: 5/6

Packing Group

- 11

Marine Pollutant

Not pollutant.

ICAO/IATA Classification

Proper shipping name

Ethanol

**IATA Class** 

3

UN number

UN1170

Packing Group

11

### Section 15. Regulatory Information

U.S. Regulations

US INVENTORY (TSCA): Listed on inventory.

SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355):: This product is not regulated

under Section 302 of SARA and 40 CFR Part 355.

SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370):: ETHANOL: Fire Hazard, Immediate

(Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA 313 toxic chemical notification and release reporting: No products were found.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: This material is not regulated under

CERCLA Sections 103 and 107.

State Regulations

Pennsylvania RTK: ETHANOL: (generic environmental hazard)

Massachusetts RTK: ETHANOL

New Jersey: ETHANOL

California prop. 65: No products were found.

Other Regulations

AUSTRALIAN INVENTORY (AICS): Listed on inventory.

CANADA INVENTORY (DSL): Listed on inventory.

CHINA INVENTORY (IECS): Listed on inventory.

EC INVENTORY (EINECS/ELINCS): Listed on inventory.

JAPAN INVENTORY (ENCS): Listed on inventory.

KOREA INVENTORY (ECL): Listed on inventory.

PHILIPPINE INVENTORY (PICCS): Listed on inventory.

#### Section 16. Other Information

Label Requirements

WARNING!

FLAMMABLE LIQUID AND VAPOR.

MAY CAUSE EYE IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

If swallowed, may cause headaches, dizziness, drowsiness and nausea, and may lead to unconsciousness.

Hazardous Material Information System

(U.S.A.)



National Fire
Protection Association
(U.S.A.)



#### HISTORY

Date of issue

6/19/2002.

Version

1

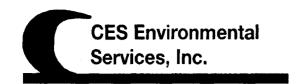
Prepared by

Product Stewardship

Notice to Reader

ETHANOL			 		 Page: 6/	6
- UZZ	 	 		 	 	

CES 2435-



### **Material / Product Approval Letter**

Date 2/29/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** 

2435

Expiration Date 3/7/2010

**Producer:** CES Environmental Services, Inc.

Address:

4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Mixed Alcohols

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Recycle of mixed alcohol streams received from various customers

Color: Varies

Odor: Alcohol

**pH**: 5-9

**Physical State:** 

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

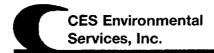
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

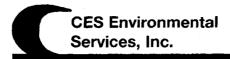
SECTION 1: Materi	al Producer Information						
Company :	CES Environmental Ser	vices, Inc.	_				
Address :	4904 Griggs Rd 4904 G	Griggs Road					
City, State, Zip:	Houston TX 77021						
Contact :	Matt Bowman			Title :			
Phone No:	(713) 676-1460			Fax :			
24 / HR Phone :				_			
U.S EPA I.D No:	na						
State I.D :	na			SIC Code	na		
SECTION 2: Billing	Information						
Company:	CES Environmental Sen	vices, Inc.					
Address :	4904 Griggs Rd 4904 G	riggs Road					
City, State, Zip:	Houston TX 77021						
Contact:				Title :			
Phone No:	(713) 676-1460			Fax:		· <u>-</u>	
SECTION 3: Genera	al Description of the Mater	ial / Product					
Name of Mateiral	/ Product : Mixed Alcoho	ols					
Detailed Descript	tion of the Process Gen	erating or Produci	ng the Materi	al / Produc	:t:		
Recycle of mixed	alcohol streams received	from various custor	mers				
Physical State :	✓ Liquid	Sludge	Po	wder			
	<b>Solid</b>	Filter Cake	Co	mbination			
Color :	·	Varies	Odor :			Alcohol	
Specific Gravity (	Water=1) :	.759	Density:			6.3-7.5	lbs / gal
Does this material	contain any total phenolic	compounds?	Yes	<b>✓</b> No			
Does this material	contain any para substitute	ed phenolic compou	nds?	Yes	<b>✓</b> No		
Layers :	✓ Single-Phas	Multi-Phase	•				
Container Type :	Drum	Tote 🗸	Truck	Other (exp	olain)		
Container Size :	5000 - 6000	o sal					
Number Of Units		3000	Alcohol	ls,n.o	، ح		
Proper U.S. DOT	Shipping Name :		UN1993, Fla	,		<del>., PG II-</del>	
Class 3	LIN/NA	UN 1987	PG	· II		RO	5000

Flash Point 50-60	<b>pH</b> 5-9	Reactive Sulfides na mg/l	Reactive Cyanides na mg/l	Solids <0.5 %
Oil and Grease	TOC	Zinc	Copper	Nickel
na mg/l	na mg/l	0 mg/l	0 mg/l	0mg/l

### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Methanol	10-90	%
Ethanol	10-90	%
n-Propanol	10-90	%
Butanol	10-90	%
Water	0-30%	

Ethanol n-Propanol	10-90	
n-Propanol		%
· ·	10-90	%
Butanol	10-90	%
Water	0-30%	
SECTION 5: Safety Related Data		
If the handling of this material / product requires the use of special protective Standard PPE	equipment, please explain.	
SECTION 6: Attached Supporting Documents		
List all documents, notes, data, and/or analysis attached to this form as part of MSDS	of the material / product profile	
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any): Oxidizers		
SECTION 8: Material Producer's Certification		
The information contained herein is based on 🗹 generator knowledge and/o above and attached description is complete and accurate to the best of my kn deliberate or willful omissions of composition properties exist and that all knowledge. I certify that the materials tested are representative of all materials	nowledge and ability to determi own or suspected hazards have	ne that no
Authorized Signature :	Date: 3/7/2008	
Printed Name / Title: n/a /	_	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information	tion :
Compliance Officer: Prabhakar Thangudu		
Date: 3/7/2008 Status: Approved Rejected		



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	rial Producer Information
Company:	CES Environmental Services, Inc.
Address:	4904 Griggs Road
City, State, Zip:	Houston TX 77021
Contact:	Title:
Phone No:	Fax No:
24/hr Phone:	
U.S. EPA I.D. No:	
State I.D.	SIC Code:
SECTION 2. Billing	Information - Same as Above
Company:	Thiormation Same as Above
Address:	
City, State, Zip:	
Contact:	Title:
Phone No:	Fax No:
SECTION 2. Conom	al Decemention of the Material / Duadwet
SECTION 5: Gener	ral Description of the Material / Product
Name of Material / F	Product: Mixed Alcohols of Process Generating or Producing the Material / Product: LECYCLE DF VARIOUS ALCOHOL STREAMS
Detailed Description	of Process Congrating or Producing the Material / Product:
Detailed Description	1 100 cess Generating of Froundling the Material / Froundling the Mate
•	VALUUS ALCOMOS
Physical State:	Liquid
i nysicai State.	
	Solid Filter Cake Combination
Color: VAUES	2 March
Color: V PV (V)	Odor: Vrv
	Odor: <u>VAMES</u> ter=1): <u>15</u> -9 Density: <u>13-15</u>   bs/gal
Specific Gravity (wa	ter=1): 1 Density: 1 lbs/gal
Does this material co	ontain any total phenolic compounds? 🔲 Yes 🛮 📉 No
Does this material co	ontain any para substituted phenolic compounds? 🔲 Yes 🛮 🔀 No
Layers:	Single-phase Multi-phase
Container Type:	☐ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size:	
Container State	
Frequency:	☐ Weekly
Number of Units (cor	
(***	<i>%</i> /
	· · · · · · · · · · · · · · · · · · ·
Proper U.S. DOT Sh	ipping Name: QQ Elammable Liquids n. v. S. (methanolethanolog)
Class: 7	
	UN/NA: UN 1993 RG: 1 RQ: 4500gallors

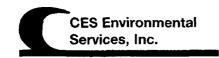
Flash Point	pH S_Q	N/A	N/A		Solids
Oil&Grease	TOC	Zino	Copper	Niekel	25 %
WAmg/I	DIAmg/I	mg/l		./1	mg/l
	V	,	,	•	
SECTION 4: Physic	al and Chemical Da	<u>ıta</u>			
Th.	COMPONENT			<u>Concentratio</u>	
I ne materia	il / product consists	of the following materia	IS	Ranges are accep	<del></del>
MEDICAN	<u> </u>			10-010	70
BUTANII)				10-90	(2)
N-PROF	ANUL	<del> · ·</del>		10-90	90
WATER	,			0-30	70
				L	
SECTION 5: Safety	Related Data				
If the handling of this	s material / product	requires the use of spec	ial protectiv	ve equipment, please	explain.
- SPANCA	00 PPE				
SECTION 6: Attach		uments			
List all documents, ne	otes, data, and/or a	nalysis attached to this fo	rm as part	of the material / prod	duct profile.
\bar{\gamma}	NOI NET	EOS TO COEA	DE N	1505	
SECTION 7: Incomp		,			
Please list all incomp					
<u> </u>					
SECTION 8: Materi	IDIZAZS	fication			
		1		711 d-4- 1 l-a	under and Crabet the above and
attached description is	s complete and acci	urate to the best of my k	ge and/or _ nowledge ar	d ability to determing	ereby certify that the above and the that no deliberate or willful
omissions of composit	tion properties exist	and that all known or sus			ed. I certify that the materials
tested are representativ	1 /	scribed by this document.			
Authorized Signature	e:KW	toson		Date:	
D : 4 1 N // // // // // // // // // // // // /	Zoli	IDAO.			
Printed Name/Title:	1 EVU	MTOO		-	
CES USE ONLY (DO NO	T WRITE IN THIS SPA	CE)			·
	0112	17 , 1			
Technical Manager:	Janua C	lyde			
Date: 2/29/	2008 App	roved Rejected			

Approval Number: 24 35

### PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	. Company
	\$ 101 per percental condition
2.	Contamination Limits (maximum limit before surcharges apply):
	Must be clear; no Books Suspended Solids
	pH must be 5-9
	Must be clear; no Books Suspended Solids  PH must be 5-9  Mild to modulet odor Books.
3.	Surcharge Pricing:
	NIA
4.	Special Testing Requirements: WIF-Social against Salove, B3
	DH+ Stacific gravity Kun distillation, conductivity+
	Modernot by distillation Stauth gravity to determine
	overall go al const.
5.	Special Testing Requirements:  (1) If south a gravity is above, 83,  PH + Stacific gravity Kun distribution, conductivity +  No attend by distribution, Stacific gravity to determine  Overall op al conoi.  Treatment and Handling Protocol:
1	17n
	MB
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

Butanol. 81 Muly . . 79 Officer . 79



### PROCESS FACILITY INFORMATION (CES USE ONLY!!)

,.	1ests for Product Recovered/Recycled (II applicable):
	PLA
8.	Management for Product Recovered/Recycled (if applicable);
	NIK

CES 2436 2436

EPAHO107001602



### **Material / Product Approval Letter**

Date 5/1/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2436

Expiration Date 5/1/2010

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

### Material / Product Information

Name of Material / Product Weak caustic solution containing sulfides Container Type:

### Detailed Description of Process Generating or Producing the Material / Product:

Received from various customers

Color: iodine/amber Odor: mercaptan/strong pH: 9-13

**Physical State:** 

**Incompatibilities:** contact with strong acids will evolve H2S

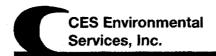
Safety Related Data/Special Handling:

Rubber boots; rubber gloves, goggles, respirator, chem suit

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Producer Informat	ion					
Company :	CES Environmenta	l Services, Inc.					
Address :	4904 Griggs Rd 49	904 Griggs Road					
City, State, Zip:	Houston TX 77021						
Contact :	Matt Bowman		Title :				
Phone No :	(713) 676-1460		Fax :				
24 / HR Phone:							
U.S EPA I.D No :	na						
State I.D:	na		SIC Cod	e na			
SECTION 2: Billing							
Company :	CES Environmenta						
Address :	4904 Griggs Rd 49						
City, State, Zip :	Houston TX 77021	·					
Contact :	(740) 070 4400		Title :				
Phone No :	(713) 676-1460		Fax :				
SECTION 3: Gener	al Description of the	Material / Product					
Name of Mateira	I / Product : Weak c	austic solution containir	na sulfides				
			ing the Material / Produ	ict·			
Received from va		Contracting of Front	mig the material / 1 / out				
Physical State :	<b>☑</b> Liquid	Sludge	Powder				
	Solid	Filter Cake	<b>◯</b> Combination				
Color :		iodine/amber	Odor :		moreant	on/otrona	
Color .	-	louine/ambei	Odoi ;			tan/strong	
Specific Gravity	(Water=1) :	1.37	Density :		11.4		_ lbs / gal
Does this material	contain any total phe	nolic compounds?	☐ Yes 🗹 No				
Does this material	contain any para sub	stituted phenolic compo	unds? Yes	<b>✓</b> No			
Layers :	✓ Single-Pha	s Multi-Phas	se ·		4.4		
Container Type :	Drum	■ Tote 🗹	Truck   Other (e.	xplain)			
Container Size :	5000						
Number Of Units	· · ————						
Proper U.S. DOT	Shipping Name :		UN1760, Corrosive lic	uids, n.o.s.,	8, PG II		
Class: 8	UN	/NA: UN1760	PG: II			RQ:	1000

Flash Point	р <b>Н</b>	Reactive Sulfides	Reactive Cyanides	Solids
>150	9-13	100-2500 mg/l	<20 mg/l	%
Oil and Grease	TOC	<b>Zinc</b>	Copper	Nickel
<100 mg/l	<2500 mg/l	na mg/l	na mg/l	na mg/l

### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
water	70-90	%
sodium hydroxide	2-15	%
sulfurized salts; sulfides and solids	2-15	%
sulfurized isobutylene	0-2	%
NaHS	3-5	%

sulfurized salts; sulfides ar	nd solids	2-15	%
sulfurized isobutyler	ne	0-2	%
NaHS		3-5	%
SECTION 5: Safety Related Data			
If the handling of this material / product require Rubber boots; rubber gloves, goggles, respirator, o		ment, please explain.	
SECTION 6: Attached Supporting Documents			
List all documents, notes, data, and/or analysis MSDS	s attached to this form as part of the n	naterial / product profile	<b>e.</b>
SECTION 7: Incompatibilities			
Please list all incompatibilities (if any): contact with strong acids will evolve H2S			
James Will Strong dolds Will Stolye 1120			
SECTION 8: Material Producer's Certification			
The information contained herein is based on sabove and attached description is complete and deliberate or willful omissions of composition pations of certify that the materials tested are	d accurate to the best of my knowledg properties exist and that all known or	ge and ability to determ suspected hazards hav	ine that no
Authorized Signature :	Date	e: 5/1/2008	
Printed Name / Title : n/a /	·		
CES USE ONLY (DO NOT WRITE IN THIS SPAC	CE) F	Process Facility Information :	

Rejected

Prabhakar Thangudu V

Status:

Approved

2436

Compliance Officer :

Approval Number:

5/1/2008

Date:

### **Material Safety Data Sheet**

#### **WEAK CAUSTIC SOLUTION CONTAINING SULFIDES**

SECTION 1 – Chemical Product and Company Identification

SECTION 2 - Composition, Information on Ingredients

SECTION 3 - Hazards Identification

SECTION 4 - First Aid Measures

SECTION 5 - Fire Fighting Measures

SECTION 6 - Accidental Release Measures

SECTION 7 - Handling and Storage

SECTION 8 - Exposure Controls and Personal Protection

SECTION 9 - Physical and Chemical Properties

SECTION 10 - Stability and Reactivity

SECTION 11 - Toxicological Information

SECTION 12 - Ecological Information

SECTION 13 - Disposal Considerations

SECTION 14 - Transport Information

SECTION 15 - Regulatory Information

SECTION 16 - Other Information

### SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

1.1 Product Name

Weak Caustic and Water Solution Containing Sulfides

Chemical Family

**Inorganic Salt Solution** 

Formula

NA (mixture)

1.2 Manufacturer/Source

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021

713-676-1460

1.3 Emergency Contact

Matt Bowman 713-826-1329 CHEMTREC 800-424-9300

### SECTION 2 - COMPOSITION and INFORMATION ON INGREDIENTS

### 2.1 Chemical Ingredients (% by wt)

### Typical Analysis

Sulfurized salts; sulfides and solids (e.g.Na2S) CAS#: 1313-82-2 2-15%Sodium Hydroxide (NaOH) CAS#: 1310-73-2 2-15%Sulfurized Isobutylene CAS #: 68511-50-2 0-2%Sodium Hydrosulfide (NaHS) CAS #: 16721-80-5 3-5%

Water remaining %

**MSDS Weak Caustic Solution** 

09/17/07

Page 1 of 6

### SECTION 3 - HAZARDS IDENTIFICATION

NFPA:

Health - 3

Flammability – 0

Reactivity - 1

### **EMERGENCY OVERVIEW**

Warning: Solution is highly alkaline.

May evolve small amounts of hydrogen sulfide, a highly toxic gas. EYE contact will cause marked eye irritation and possible corneal damage. SKIN contact will result in irritation and possible corrosion of the skin. INGESTION will irritate and burn the mouth, throat and the gastrointestinal tract; contact with stomach acid will cause hydrogen sulfide vapors to be released. HEATING or ACID contact will cause hydrogen sulfide gas to evolve.

### 3.1 POTENTIAL HEALTH EFFECTS

**EYE:** Contact with the eyes will cause marked eye irritation and possibly severe corneal damage.

**SKIN CONTACT:** Contact with the skin will cause skin irritation or a burning sensation. Prolonged contact will result in corrosion of the skin.

SKIN ABSORPTION: Absorption is unlikely to occur.

**INGESTION:** Ingestion will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved.

**INHALATION:** Product solution and vapors may contain a small amount of hydrogen sulfide gas in ppm. Exposure to this gas causes headaches, nausea, dizziness and continued exposure can lead to loss of consciousness and death.

CHRONIC EFFECTS – CARCINOGENICITY: Not listed as a carcinogen by NTP, IARC or OSHA.

### SECTION 4 - FIRST AID MEASURES

- 4.1 **EYES:** Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye. Obtain immediate medication.
- 4.2 **SKIN:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention.
- 4.3 **INGESTION:** DO NOT INDUCE VOMITING. If victim is conscious, immediately give 2 to 4 glasses of water. If vomiting does occur, repeat fluid administration. Obtain immediate medical attention.
- 4.4 **INHALATION:** Remove victim form contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

**MSDS Weak Caustic Solution** 

### SECTION 5 - FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

FLASH POINT: Not Flammable

METHOD USED: NA

5.2 FLAMMABLE LIMITS: Hydrogen Sulfide

LFL: 4%

UFL: 44%

- 5.3 EXTINGUISHING MEDIA: Water spray or foam or as appropriate for combustion involved in fire.
- 5.4 FIRE and EXPLOSIVE HAZARDS: Solution is non-flammable. However if these solutions are exposed to heat or acids, hydrogen sulfide will be released and may form explosive mixtures with air (see above). Keep containers and/or storage vessels in fire area cooled with water spray. Heating may cause the release of some hydrogen sulfide vapors.
- 5.5 FIRE FIGHTING EQUIPMENT: Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent) and full protective gear.

### SECTION 6 - ACCIDENTIAL RELEASE MEASURES

- 6.1 SMALL RELEASES: Isolate for 75 feet. Confine area to qualified response personnel. Wear proper Personnel Protective equipment (See Section 8). Confine release material by berming or diverting its path Absorb on sand, earth or other inert dry absorbent. Do not allow into sewer, storm drains or any waterway. Oxidize residual reactive sulfides with a weak (3-5%) hydrogen peroxide solution to stop the release of any hydrogen sulfide. Remove contaminated soil and dispose of in accordance with all governmental regulations.
- 6.2 LARGE RELEASES: Activate Emergency Response Plan procedures. Isolate release area for 500 feet. Confine area to qualified response personnel. Wear proper Personnel Protective Equipment (See Section 8). Shut off release, if safe to do so. Dike spill area to prevent runoff into sewers, drains, or surface waterways.
  Treat remaining material as a small release (See 6.1).

### SECTION 7 - HANDLING and STORAGE

- 7.1 HANDLING: Wear proper protective equipment (See Section 8). Avoid breathing product vapors. Avoid contact with skin and eyes. Use only in a well ventilated area. Dilute product only in enclosed containers. Wash thoroughly after handling.
- 7.2 STORAGE: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame.

**MSDS Weak Caustic Solution** 

### SECTION 8 - EXPOSURE CONTROLS and PERSONAL PROTECTION

- 8.1 RESPIRATORY PROTECTION: If working near open container or storage vessel opening or open tank truck dome cover, have available self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent), or respirator. Normally, this caustic has a low concentration of sulfides in solution which does not require the use of a respirator.
- 8.2 SKIN PROTECTION: Neoprene rubber gloves, pvc rain suit and boots can be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded.
- 8.3 EYE PROTECTION: Chemical goggles and a full face shield.

8.4 EXPOSURE GUIDELINES:

OSHA

**ACGIH** 

TWA STEL TLV STEL

Hydrogen Sulfide

20 ppm (ceiling)

10 ppm (ceiling)

8.5 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub process or storage vessel vapors with caustic solution. Maintain eye wash safety shower in areas where chemical is handled.

### SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

- 9.1 APPEARANCE: Light to dark brown or red liquid
- 9.2 ODOR: Possibly hydrogen sulfide (rotten egg) odor.
- 9.3 BOILING POINT: Not Determined
- 9.4 VAPOR PRESSURE: Not Determined
- 9.5 VAPOR DENSITY: (Air = 1.0) 1.17
- 9.6 SOLUBILITY IN WATER: Complete
- 9.7 SPECIFIC GRAVITY: 1.03 1.4 (8.59 11.0 lbs/gal)
- 9.8 pH: 11.5 13.5
- 9.9 VOLATILE: Not Determined

### SECTION 10 – STABILITY and REACTIVITY

- 10.1 STABILITY: This is a stable material.
- 10.2 HAZARDOUS POLYMERIZATION: Will not occur.
- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Heating product may evolve H2S gas. Fire conditions will cause the production of sulfur dioxide. Hydrogen sulfide (4 – 44%) may form flammable mixtures with air.

**MSDS Weak Caustic Solution** 

10.4 INCOMPATIBILITY: Acids will cause the release of highly toxic hydrogen sulfide. Sulfidic caustic solution is not compatible with copper, zinc, aluminum or their alloys (i.e. bronze, brass, galvanized metals, etc.).
(See Section 7.2 Storage)

### SECTION 11 - TOXICOLOGICAL INFORMATION

- 11.1 ORAL: Data not available.
- 11.2 DERMAL: Data not available.
- 11.3 INHALATION: INH-RAT LC 50: 444 ppm (hydrogen sulfide)
- 11.4 CHRONIC and CARCINOGENICITY: No evidence available.
- 11.5 TERATOLOGY: Data not available.
- 11.6 REPRODUCTION: Data not available.
- 11.7 MUTAGENICITY: Data not available.

### SECTION 12 - ECOLOGICAL INFORMATION

None Available

### SECTION 13 - DISPOSAL CONSIDERATIONS

If released to the environment for other than its intended purpose, this product contains some reactive sulfides. The pH may be high enough to meet the definition of a corrosive waste, D002.

### SECTION 14 - TRANSPORT INFORMATION

- 14.1 DOT SHIPPING NAME: Corrosive liquids, n.o.s.
- 14.2 DOT HAZARD CLASS: 8
- 14.3 UN/NA NUMBER: UN1760
- 14.4 PACKING GROUP: II
- 14.5 DOT PLACARD: Corrosive
- 14.6 DOT LABLE(s): Corrosive
- 14.7 IMO SHIPPING NAME: Sodium Hydroxide Solution
- 14.8 RQ (REPORTABLE QUANTITY): 1,000 lbs (454 Kg) 100% basis (Approx. 538 gals)
- 14.9 USCG BARGE CERTIFICATION: SSH (sodium sulfide, hydrosulfide solutions, H2S 15 ppm or less). SSI (sodium sulfide, hydrosulfide solutions, H2S greater than 15 ppm but less than 200 ppm).

### SECTION 15 - REGULATORY INFORMATION

**MSDS Weak Caustic Solution** 

- 15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- 15.2 SARA TITLE III. a. EHS (Extremely Hazardous Substance) List:
  - b. Sections 311 and 312 (Tier I, II) Categories:

Immediate (acute)

Yes

Fire

No

Sudden Release

No

Reactivity

Yes

Delayed (chronic)

No

- c. Section 313 (Toxic Release Report-Form R): No
- d. TPQ (Threshold Planning Quantity): No
- 15.3 CERCLA and SUPERFUND: RQ (Reportable Quantity) 1,000 lbs
- 15.4 TSCA (Toxic Substance Control Act) Inventory List: Yes
- 15.5 RCRA (Resource Conservation and Recovery Act) Status: No.
- 15.6 WHMIS (Canada) Hazard Classification: E, D1
- 15.7 DOT HAZARDOUS MATERIAL: (See Section 14) Yes
- 15.8 CAA HAZARDOUS AIR POLLUTANT (HAP): No

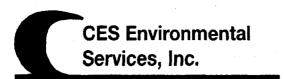
#### 16 - OTHER INFORMATION SECTION

REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-1993.

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSAREY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE THE MATERIAL SAFETY DATA SHEET PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

**MSDS Weak Caustic Solution** 

**MSDS Weak Caustic Solution** 



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

**pH**: 12-12.48

### **Material / Product Approval Letter**

Date 7/7/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2437

Expiration Date 7/7/2010

Producer: CES Environmental Services, Inc.

**Address:** 4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Sodium hydrosulfide with ammonia

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Odor: Ammonia

Targa material used to scrub H2S from stream. See Profile # 2806 attached.

Table material about to before 1125 from Stromm. See 110 me il 2000 attached.

**Physical State:** 

Incompatibilities: Acids

Color: Yellow to dark green

Safety Related Data/Special Handling:

Std PPE for high pH material with sulfides.

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# KLJR

# PRODUCT PROPILE



4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com

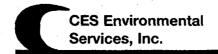
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Ge	enerator Informa	icon icon n	ATIA ba	0 5	n Tic	Inc.				
Address:	() (0	1		~ .z	IVICES	r ( - C				
City:			Sta	ate:		Zip:				
Contact:				T	itle:					
Phone Numbe	r:			F	ax Number:					
24/hr Phone N	lumber:									
US EPA ID No:										
State ID No:				s	IC Code:				<del></del>	
SECTION 2: Bi	lling Information		ame as Abo	ve						
Address:	- vai	LS					<del></del>		····	
City:			C+-	ate:		Zip:				
Contact:				_	itle:	_ zip.		·		
Phone Numbe	r·				ax Number:					
· none numbe	··				ax itallibel.					
SECTION 3: Ge	eneral Description	n of the Was	<u>ste</u>							
Name of Wast Detailed Descr	e: Seription of Process	s Generating	Maste:	<u>u</u> d	0501	fiche	wla	MMÕ	na	
Wasan To	liga m	ateric	ی م	sed	to so	nb!	HaS Fin	m s	hrean	n-su
Physical State:	Liquid Solid	d		ıdge ter Cake		Powder Combinati	ion		Prof	TL# 26
Color:	tllow.	to d	.gru	<b>~</b> °	dor:	ami	monia	<u> </u>	Cat	tached
Specific Gravit	y (water=1):	1	.3			Density:	22165	s/gal		
Does this mate	erial contain any	total phenol	ic compour	nds?	Yes		No			
Does this mate	erial contain any	para substit	uted pheno	lic compo	unds?		Yes 🗌 No	)	<i>•</i>	
	ubject to the ber f your waste con		•				-	Yes [	No	
2812	2813	2816	2819	2821	2822			s. 2833	2834	
2835	2836	2841	2842	2843	2844			2865	2869	
2873	2874	2876	2879	2891	2892			2899	2911	
3312	4953	4959	9511	2031	2032	2093	2090	2099	2911	
3312	4933	4333	9311							
Layers:	Single-pha	ise	Multi-ph	ase						
Container Type	e: Drum	□ Tot	e 🏲 Tru	uck 🗌 O	ther (explain	n)				
Frequency:	Weekly 🗌 N	Monthly 🗌	Yearly 🗌	One-Tim	e					

Is this a USEPA "Hazardous Waste" per 40CFR 20 If "Yes", then please complete, sign and date the U		Yes Yes		No ched hereto		
<u> </u>	D002 (Corr 004 D005 010 D011 3 (please list all	□ D006	D003 (Read		☐ D009	
Is this an "F" or "K" Listed waste or mixed with a lf "Yes", then please list ALL applicable codes:		☐ Yes	Ø	No		
Is this a commercial product or spill cleanup tha 40 CFR 261.33(e) or (f)? If "Yes", then please list ALL applicable codes:	Yes 🔍	n "10" or "P" wa No	ste code un	der		
Texas State Waste Code Number:	PRO	DUCT	•	Ç	olotic	
Proper US DOT Shipping Name: Class: SON NA: 182	Y PG:	4140	RQ:	D/A	£ 110	) V (
Flash Point pH		ve Sulfides	Reactive	Cyanides	Sol	ids
7150 12-12.48	7 0	) <u>mg/l</u>	U	mg/l	40	%
Oil & Grease TOC		Zinc	<del></del>	per	Nic	
6 mg/l 0 mg/l		mg/l	0	mg/l	$\cup$	<u>mg/l</u>
SECTION 4: Physical and Chemical Data						
COMPONENTS TABLE			CONCENT	RATOIN		UNITS
The waste consists of the following mat	erials		Ranges are			or %
Sodium Hudrosulfidu	ت ا		8-11			570
sodim Silfide.			7-9			90
Socium Hudroxia	de .		_5-1			ഗ്ര
Sodium Suphiu	•		u-	8		90
usater			_ఫైన్ౖ	<u> 74 </u>		070
arnmonia			<u> 10,0</u>	0 <i>0</i>		ppm
			-			
	•					
						-
			· ·		-	

	: Safety Relate				. •		
If the hand	ling of this wa	ste requires	the use of special				v.,
STE	772	<u>400</u>	High f	m ma	terial	w Sulf	10.00
_							<del></del>
						<del></del>	<del></del>
SECTION 6	: Attached Su	pporting Do	cuments				
List all docu	uments, notes,	data and/c	r analysis attache	d to this form a	s part of the was	ste	
approval pa		_	_	COMMI	_	file	
	J		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		+ <del>5 + -</del>		<del></del>
				-			
	: Incompatibil						
	ALL incompatik	oilities (if an	y):				
<u>Aci</u>	ds						
_							
			<u>Documentation</u>				
Laboratory	analysis of the	a hazardous	waste characteris	stics, listed belo	w, <b>WAS NOT PE</b>	RFORMED	
based upor	n the following	generator	knowledge:				
TCLP Metal		*					
TCLP Volati	les:	¥					
TCLP Semi-	Volatiles:	<del>//</del> _					
Reactivity:		<del></del>		<u> </u>			· · · · · · · · · · · · · · · · · · ·
Corrosivity	•						
Ignitability:		<u> </u>					·····
	Waste Receipt	<u>Classificatio</u>	<u>1 Under 40 CFR 437</u>	(Prtaining to Pro	e-Treatment Requ	uirements for Centra	alized Waste Treatment
<u>Facilities</u> )	ls this materia	d a wastawa	tor or wastowator s	dudao?		□ vrc Mh N	10
		omplete this	ter or wastewater s	siuuger		☐ YES ¥☐ N	U
	165,6	mpiete ims	Section.				
	PLEASE CHEC	K THE APPRO	PRIATE BOX. IF NO	O APPROPRIATE (	CATEGORY, GO TO	O THE NEXT PAGE.	
Metals Subc	ategory: Subp						
F	□ Spent electro □ Metal finishin		and/or sludges				
F	Chromate wa	-	and siduges				
	<del>-</del>		down water and slu	udges			
	☐ Spent anodizi			J	•		
	Incineration v						
Ļ	Waste liquid	•		,			
F			s greater than 136 r				
<u> </u>			h or without metals		tronlating or phos	sphating operations	
-	Vibratory deb			utions from elec	ropiating or phos	phating operations	
	= '	_	s used to clean met	al parts or equip	ment		
			٠				
Oils Subcate	gory: Subpart	В					
· <u> </u>	」Used oils ]Oil-water emi	ulcione or mi	vturos				
·  -	] Oil-water emi	IIII 10 ciioicik	(tures				
F	Coolants						
	Contaminated		er clean-up from pe	etroleum sources			
	ြဲ Used petroleເ						
	Oil spill clean-	·up					
-	Bilge water	intore from	atralaum anumas				
	∟ הווואפ/wasn w	acers HOITI P	etroleum sources				

☐ Interceptor wastes
Off-specification fuels
Underground storage remediation waste
Tank clean-out from petroleum or oily sources
☐ Non-contact used glycols
<ul> <li>Aqueous and oil mixtures from parts cleaning operations</li> <li>Wastewater from oil bearing paint washes</li> </ul>
wastewater from on bearing paint wasnes
Organics Subcategory: Subpart C  Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources
☐ Solvent-bearing wastes
Off-specification organic product
Still bottoms
Byproduct waste glycol
Wastewater from paint washes
Wastewater from adhesives and/or epoxies formulation
Wastewater from organic chemical product operations
Tank clean-out from organic, non-petroleum sources
(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)
If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
excess of the values listed below, the waste should be classified in the metals subcategory.
Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.  Metals Subcategory Oils Subcategory Organics Subcategory
SECTION 10 Additional Instructions
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11: Congretor's Cortification
SECTION 11: Generator's Certification  The information contained herein is based on generator knowledge and/or analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of
my knowledge and ability to determine that no deliberate or willful omissions of compostion
properties exist and that all known or suspected hazards have been disclosed. I certify that the
materials tested are representative of all materials described by this document.
Authorized Signature: Burnifu Rest Date: 16-30-08
Authorized Signature: String Rust Date: U-30-08  Printed Name/Title: Sunifer Rust / CSR / Inside Sales
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
O O
Compliance Officer: Value KH-1A
Date: 7-7-08 Approved Rejected
Approval Number: 2437



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener					,								
Company :	Targa Midstr	ream Ser	vices LP										
Address :	10319 Hwy	146 North	1										
City, State, Zip :	Mont Belvieu	ı TX 775	80										
Contact :	Orval W Lev	vis					Title :						
Phone No :	(281) 385-32	215					Fax :	(2	81) 385	-3188			
24 / HR Phone:													
U.S EPA I.D No :	TXD980625	974											
State I.D :	RRGEN						SIC Co	de					
***		•					_						
SECTION 2: Billing	Information												
Company :	Targa Midstr	ream Ser	vices LP										
Address :	PO Box 10									-	* *		
City, State, Zip :	Mont Belvieu	TX 7758	30							_		***	
Contact :	Orval W Lew	<i>i</i> s					Title:					-	
Phone No :	(281) 385-32	215					Fax :	(2	81) 385-	-3188			
SECTION 3: Gener	al Description	of the Wa	eto										
Name of Waste :				uith aman	nania /fr	om I CA	.lCi4\						
used in the low ຣເ	ılfur gasoline ı	mercapta	ın conversior	/aste:	s of rem	noving o		oil and	or merc	aptans,	the cau	ıstic is ı	used to
used in the low su scrub H2S from th Physical State :	ılfur gasoline ı	mercapta ie ammor d	n conversion nia is from th Sli	/aste: n proces e causti udge ter Cake	s of rem c feedst	noving cock stre			or merc				used to
used in the low suscrub H2S from the Physical State:	ulfur gasoline i ne stream. Th ✓ Liqui Solid	mercapta ie ammor d	in conversion nia is from th Si Si Fil	/aste: n proces e causti udge ter Cake	ss of rem c feedst	noving cock stre	eam. owder		or merc	stror	the cau	onia	
used in the low suscrub H2S from the Physical State:	ulfur gasoline i ne stream. Th ✓ Liqui Solid	mercapta ie ammor d	n conversion nia is from th Sli	/aste: n proces e causti udge ter Cake	ss of rem c feedst	noving cock stre	eam. owder		or merc			onia	used to
used in the low suscrub H2S from the Physical State:  Color:	ulfur gasoline ine stream. Th  ✓ Liqui  Solid  (Water=1):	mercapta ne ammor d	in conversion nia is from th Sh Fil light to da 1.163	/aste: n proces e causti udge ter Cake	ss of rem c feedst	noving cock stre	eam. owder	on 	or merc	stror		onia	
used in the low suscrub H2S from the Physical State:  Color: Specific Gravity (Does this material)	olfur gasoline in ne stream. Th ✓ Liqui Solid (Water=1):	mercapta ne ammor d d	in conversion nia is from th Si Fil light to da 1.163	/aste: n proces e causti udge tter Cake	os of rem c feedst Oc De	noving cock stre	eam. owder ombinatio	on 	or merc	stror		onia	
Detailed Descrip used in the low su scrub H2S from th Physical State:  Color: Specific Gravity Does this material us the Waste subjects	Ilfur gasoline in the stream. The Liqui IIII Solid  (Water=1): contain any to contain any page	mercapta ne ammor d d tal pheno	in conversion in is from th Si Fil light to da 1.163	laste: n proces e causti udge tter Cake rk	Oc De vy Ye	noving cock stre	eam.  owder  ombination  No	on		stror	ng amm	onia	
used in the low suscrub H2S from the Physical State:  Color: Specific Gravity (Does this material Does this material list the Waste subjection)	Ilfur gasoline in the stream. The Liqui IIII Solid  (Water=1): contain any to contain any page	mercapta ne ammon d tal pheno ara substi	in conversion in is from th Si Fil light to da 1.163	laste: n proces e causti udge tter Cake rk	Oc De vy Ye	noving cock stre	eam.  owder  ombination  No	on		stror 8-9	ng amm	onia	
used in the low suscrub H2S from the Physical State:  Color: Specific Gravity (Does this material Does this material is the Waste subject 2812 2813 2	Ilfur gasoline in the stream. The Liqui Implication Im	mercapta ne ammon d tal pheno ara substi ne waste	in conversion in is from th Sim Fil light to da 1.163 lic compound tuted phenolic	/aste: n proces e causti udge tter Cake rk ds? c compo	October 1997 Properties of the	noving cock stre	eam.  pwder  pmbinatio  ☐ No  ✓ Yes  Subpart	on	□ No	stror 8-9 Yes	ng amm	onia No	lbs / ga
used in the low suscrub H2S from the Physical State:  Color: Specific Gravity (Does this material Does this material is the Waste subject 2812 2813 2861 2865 2	Ifur gasoline in the stream. The Liqui Implication Imp	tal pheno ara substitute ne waste 2821 2874	in conversion the street of th	/aste: n proces e causti udge ter Cake rk ds? c compo	October 2833 2892	noving cock stre	eam.  pwder  pmbinatio  No  Yes  Subpart  2835	FF) 2836	No	stror 8-9 <b>Yes</b> 2842	ng amm ✓ 2843	onia <b>No</b> 2844	lbs / ga
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used in the low suscrub H2S from the Physical State:  Color: Specific Gravity (Does this material State State)  2812 2813 2861 2865 2  Layers: Container Type: Container Size:	Iffur gasoline in the stream. The Liqui in Solid  (Water=1): contain any to contain any pact to the benze 2816 2819 2873  Single Drum 50000	tal pheno ara substitute waste 2821 2874	in conversion the street of th	/aste: n proces e causti udge ter Cake rk ds? c compo SSHAP? ( 2824 2891 ulti-Phas	October 2833 2892 se	noving cock street ock street ock street ock street ock of the cock of the cock ock of the cock ock of the cock ock of the cock ock ock of the cock ock of the cock ock of the cock ock ock ock ock ock ock ock ock oc	owder  ombination  No  ✓ Yes  Subpart  2835 2896	FF) 2836 2899	No 2841 2911	stror 8-9 <b>Yes</b> 2842	ng amm ✓ 2843	onia <b>No</b> 2844	lbs / ga
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Characteristic for Toxic M	letals: D004	D	005 🗌 D00	D6 🗌	D007			
	□ D008		009 🗌 D0:	10	D011			
Characteristics for Toxic	Organics: D012 thru	ı D043 (	please list all th	nat apply)			<del></del>	
Is this an "F" or "K" Listed	d waste or mixed w	ith one?	Yes	<b>✓</b> No				
If "Yes", then please i	ist ALL applicable co	odes:					<del>- · · · · · · · · · · · · · · · · · · ·</del>	
Is this a commercial prod 261.33(e) or (f)?	uct or spill cleanup	that wo	uld carry a "U"	or "P" was	ste code under 40	CFR Y	es 🗹 I	No
If "Yes", then please I	ist ALL applicable o	odes:				· · · · · · · · · · · · · · · · · · ·		
Texas State Waste Code	No : F	Recycle						
Proper U.S. State Waste	Code No :			Sodium	hydroxide soluti	on		
Class: 8	UN/NA :	1824		PG:	H		RQ:	na
Flash Point >150	pH 12.12.48		Reactive Su	ilfides mg/l	Reactive Cya	anides mg/l	Solids <1	%
Oil and Grease	тос		Zinc		Сорре	-	Nickel	
0 mg/l	0	mg/l	0	mg/l	0	mg/l	0	mg/l
SECTION 4: Physical and Cl	nemical Data							
The meterial /	COMPONENTS			olo		oncentration	****	Units
The material /	product consists of sodium hydroxide su			ais	Range	98-100	able _	or %
	ammonia					0-1		%
	solids					<1		%
•	sodium hydroxide solu	tion w/su	fides			5-70000		ppm
L								
SECTION 5: Safety Related I								
If the handling of this wa std ppe for high pH materia	<u>-</u>	se of sp	ecial protective	e equipmo	ent, please expl	ain.		
sid ppe for high pri materia	ai with Sunides.							
SECTION 6: Attached Suppo	utina Dagumanta					*		
List all documents, notes		— lveie att	ached to this f	orm se na	ort of the waste :	ennroval naci	kano	
msds	, data, and/or una	19313 atu		om as pe	ir or the waste t	approvar pao	kago.	
SECTION 7: Incompatibilitie	s	<u></u>						
Please list all incompatib	ilities (if any):							
acids								
					,			
SECTION 8: Generator's Kno								
Laboratory analysis of the following generators kno		e charac	teristics, listed	d below, V	VAS NOT PERF	ORMED base	d upon the	
TCLP Metals :	<u>x</u>							
TCLP Volatilies :	<u>x</u>							
TCLP Semi-Volatiles :	X							
								•

Read	activity: <u>X</u>	
Corr	rrosivity: <u>x</u>	
lgnit	nitability: <u>x</u>	
SECT	CTION 9: Waste Receipt Classification Under 40 CFR 437	
ls this	this material a wastewater or wastewater sludge?	<b>☑</b> NO
If 'YE	YES', complete this section	
PLEA	EASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE	E CATEGORY, GO TO THE NEXT PAGE
Mata	itals Subcategory: Subpart A	
	Spent electroplating baths and/or sludges	
	Metal finishing rinse water and sludges	
	Chromate wastes	
	Air pollution control blow down water and sludges	
	Spent anodizing solutions	
	Incineration wastewaters	
	] Waste liquid mercury	
	Cyanide-containing wastes greater than 136 mg/l	
	Waste acids and bases with or without metals	
	Cleaning, rinsing, and surface preparation solutions from elec	ctroplating or phospha
	Vibratory deburring wastewater	
	Alkaline and acid solutions used to clean metal parts or equip	pment
Oils	s Subcategory: Subpart B	
	Used oils	
	Oil-water emulsions or mixtures	
	Lubricants	
	Coolants	
	Contaminated groundwater clean-up from petroleum sources	
	Used petroleum products	
	Oil spill clean-up	
	] Bilge water	
	Rinse/wash waters from petroleum sources	
	Interceptor wastes	
	Off-specification fuels	
	Underground storage remediation wastes	
	Tank clean-out from petroleum or oily sources	
	Non-contact used glycols	
	Aqueous and oil mixtures from parts cleaning operations	
	Wastewater from oil bearing paint washes	
Orga	ganics Subcategory Subpart C	
	Landfill leachate	
닏	Contaminated groundwater clean-up from non-petroleum sour	ices
	Solvent-bering wastes	
	Off-specification organic product	
	Still bottoms	
	Byproduct waste glycol	
	Wastewater from paint washes	· · · · · · · · · · · · · · · · · · ·

Wastewater from adhesive and/or epoxies formulation

Wastewater from organic chemical product operations	
☐ Tank clean-out from organic, non-petroleum sources	
(1) If the waste contains oil and grease at or in excess of 100	mg/L, the waste should be classified in the oils subcategory
(2) If the waste contains oil and grease less than 100 mg/L, a excess of the values listed below, the waste should be cla	
Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L	
(3) If the waste contains oil and grease less than 100 mg/L, a or nickel above any of the values listed above, the waste	and does not have concentrations of cadmium, chromium, copper, should be classified in the organics subcategory.
☐ Metals Subcatego	
☐ Oils Subcatego	
☐ Organics Subcategory	
SECTION 10: Additional Instruction	
Chromium, Copper, Nickel, and Oil and Grease, CES will sen concentrations. This will be prior to acceptance. The generate	and you did not furnish data for the concentration of Cadmium, d offsite to a commercial laboratory a sample to determine these or will be responsible for the cost of the analysis.
SECTION 11: Generator's Certification	
above and attached description is complete and accurate deliberate or willful omissions of composition properties disclosed. I certify that the materials tested are representations.	tor knowledge and/or  analytical data. I hereby cerity that the to the best of my knowledge and ability to determine that no exist and that all known or suspected hazards have been tative of all materials described by this document.
Authorized Signature :	Date: 6/4/2008
Printed Name / Title : R. Ray /	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information :
Compliance Officer: Prabhakar Thangudu	
Date: 6/4/2008 Status: Approved	Rejected
Approval Number: 2806	



# **Material Safety Data Sheet**

# SODIUM HYDROXIDE SOLUTION

pages

#### **COMPANY IDENTIFICATION**

CES Environmental Services, Inc 4904 Griggs Road Houston, TX 77021

Information:

(713) 676-1460

**Emergency Contact:** 

(713) 676-1460

#### 1. Product Identification

#### Section 1: CHEMICAL PRODUCT

1.1 Product Name Sodium Hydrosulfide
Chemical name Sodium Hydrosulfide
Chemical Family Inorganic salt
Synonyms sodium hydrogen sulfide
Molecular formula NaHS

CAS NO.

: 16721-80-5

Packaging

: Bulk Specified

Country of Origin

USA

Specification

: Sodium Hydrosulfide Molecular formula: NaHS Molecular weight: 56.06 CAS NO: 16721-80-5

Predominance: the flakes (thickness: 1mm-2mm), less impurity and higher content of NaHS, lower iron,. Synonyms: Sodium Hydrosulphide, Sodium Hydrogen Sulphide, Sodium Hydrogen Sulfide, Sodium Sulfhydrate, Sodium Bisulphide. Using: mainly used by mill run, pesticide, dye, leather production and organic compound. Compared with other company, high purity, less impurity, not easy to be intenerated, especially less iron ion, sodium sulfide, sodium carbonate, Insolubles impurity in water. Dip-dying in the leather production, it can disperse the fiber equably. Less iron insure the appearance and good quality of leather. Producing Method: absorb sulfureted hydrogen (H2S) through subtractive ionic film. Properties: White needle system

crystal, easily being deliquescent, soluble in water and alcohol,

water solution with strong alkaline. Reacted with acids and liberates hydrogen sulfide. Industrial grade is generally in solution form with pale yellow color, slight rotten egg smell. Packing: 25kgs net in PP bag with PE liner, or 900kg bag, or 1oookg bag with pallet. Storage: Keep only in closed, properly labeled containers. Do not store in zinc, aluminum, or copper containers. Store in cool, dry, ventilated area to prevent it from being deliquescent. Separated from acids, acidic materials, oxidizing agents

#### **Regulatory Names**

#### SODIUM HYDROSULFIDE

CAA RMP: Not a regulated chemical.

**CERCLA:** Regulated chemical with a Reportable Quantity of 5000 pounds.

**EPCRA 302 EHS:** Not a regulated chemical.

TRI (EPCRA 313): Not a regulated chemical.

RCRA chemical code: none

#### Alternate Chemical Names

HIDROSULFIDO DE SODIO, SOLUCIÓN DE (DOT

SPANISH)

HYDROGÉNOSULFURE DE SODIUM, EN SOLUTION

(DOT FRENCH)

SODIUM BISULFIDE

SODIUM HYDROGEN SULFIDE

SODIUM HYDROSULFIDE

SODIUM HYDROSULFIDE, [SOLUTION]

SODIUM HYDROSULFIDE SOLUTION

SODIUM HYDROSULPHIDE, SOLUTION

SODIUM SULFHYDRATE

CAS Number

**UN/NA Number** 

**STCC Number** 

16721-80-5

2922

4935268 4935276

4935277

NFPA 704:

NO

**DOT Hazard Label:** 

**CORRO** 

CODES

SIVE

#### **POISON**

#### **General Description**

A colorless to light-yellow liquid. Corrosive to metals and tissue. It is used in paper pulping, manufacturing dyes and dehairing hides. (NOAA Reactivity 2007)

## 2. Composition/Information on Ingredients

INGREDIENT	CAS NO.	PERCENT	<u>HAZARDOUS</u>
Sodium Hydrosulfide Sodium Sulfide Sodium Hydroxide Sulfide Sulfur	16721-80-5	8 - 11 7 - 9 5 - 7 6 - 8	Yes Yes Yes
Water	7732-18-5	25 - 74	No
Ammonia		10,000 ppm	

**Molecular Formula:** 

Н

S.Na

Melting Point: 63.0 ° F (USCG, 1999)

Vapor Pressure: 49.12 mm Hg (USCG, 1999)

Specific Gravity: 1.3 at 59.0 ° F (USCG, 1999)

Boiling Point: 212.0 ° F at 760.0 mm Hg (approx.) (USCG, 1999)

ERPG: use TEEL data

 TEEL-1
 TEEL-2
 TEEL-3

 0.15 mg/m3
 1.25 mg/m3
 6.0 mg/m3

(TEEL, 2003)

#### 3. HAZARDS IDENTIFICATION

**Reactivity Alerts** 

Strong Reducing Agent Water-Reactive

**Air & Water Reactions** 

The solution continuously and slowly evolves gaseous hydrogen sulfide. Rate of evolution is increased by acids.

#### Fire Hazard

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.). Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated. (DOT, 2000)

#### **Health Hazard**

Inhalation of mist causes irritation of respiratory tract and possible systemic poisoning; hydrogen sulfide gas, which may be given off when acid is present, causes headache, dizziness, nausea, vomiting; continued exposure can lead to loss of conscious- ness, respiratory failure, and death. Liquid causes marked eye irritation; itching, lachrymation, swelling, and corneal injury causing blurring of vision are the most common effects; exposure to light may increase the painful effects. Contact of liquid with skin causes irritation and corrosion of tissue; continued exposure may cause dermatitis. Ingestion causes severe burning and corrosion of all portions of the gastro-intestinal tract, pain in the throat and abdomen, nausea, and vomiting, followed by diarrhea. In severe cases, collapse, unconsciousness, and paralysis of respiration may be expected. (USCG, 1999)

#### Reactivity Profile

A chemical base. Reacts with acids to release flammable and toxic gaseous hydrogen sulfide. As long as the solution is kept strongly alkaline, pH > 10, there is very little release of H2S. At pH = 7, the percent concentration of H2S released is close to 80%. (NOAA REACTIVITY, 2007)

Belongs to reactive group(s)

Sulfides, Inorganic

#### 4. FIRST AID MEASURES

#### First Aid

INHALATION: move victim from contaminated atmosphere; call physician; if breathing has ceased, start mouth-to-mouth resuscitation.

EYES: immediately flush with large quantities of running water for a minimum of 15 min.; obtain medical attention as soon as possible; while awaiting instructions from physician, patient may be kept in a dark room and ice compresses applied to the eyes and forehead.

Contain material as described above and call the local fire or police department for immediate emergency assistance.

#### 7. HANDLING AND STORAGE EXPOSURE CONTROLS, PERSONAL PROTECTION

#### **HANDLING:**

Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel or container to another. This material can accumulate static charge by flow or agitation. Vapors can be ignited by static discharge. Use explosion proof equipment as directed by local fire codes.

#### STORAGE:

Store unopened containers under cool, dry and ventilated conditions. Keep away from heat, sparks and flame.

#### **EXPOSURE CONTROLS, PERSONAL PROTECTION**

Allowable upmost chroma......MAC (mg/m3):0.2

- 7.1 method of inspect......titration of acid and alkali, luminosity of flame.
- 7.2 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub, process or storage vessel vapors with caustic solution. Maintain eyewash/safety shower in areas where chemical is handled.
- 7.3 RESPIRATORY PROTECTION: If working near open container or storage vessel opening or open tank truck dome cover, wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent).
- 7.4 SKIN PROTECTION: Neoprene rubber gloves, chemical suit and boots should be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded.
- 7.5 EYE PROTECTION: Chemical goggles and a full face shield.
- 7.6 BODY PROTECTION: Neoprene rubber dress.
- 7.7 HAND PROTECTION: Neoprene rubber gloves
- 7.8 OTHERS: At workshop forbid smoking, taking food, drinking, wash hands before

SKIN: immediately flush affected areas with water; obtain medical attention if irritation persists.

INGESTION: obtain medical attention as soon as possible; if patient is conscious, induce vomiting by giving large amounts of water or warm salty water (2 tablespoons of table salt to a pint of water); if this measure is unsuccessful, vomiting may be induced by tickling back of patient's throat with a finger. Vomiting should be encouraged until the vomitus is clear. If patient is unconscious, do not give anything but ensure there is no obstruction to breathing (his tongue should be kept forward and false teeth removed). He will be less likely to aspirate vomitus if he is placed in a face-down position. (USCG, 1999)

#### 5. Fire Fighting

Extinguish fire using agent suitable for type of surrounding fire. (Material itself does not burn or burns with difficulty.) Use water in flooding quantities as fog. Apply water from as far a distance as possible. (© AAR, 2003)

#### **Non-Fire Response**

Keep material out of water sources and sewers. Build dikes to contain flow as necessary. Apply water spray or mist to knock down vapors. Land spill: Dig a pit, pond, lagoon, holding area to contain liquid or solid material. Dike surface flow using soil, sand bags, foamed polyurethane, or foamed concrete. Absorb bulk liquid with fly ash or cement powder. Water spill: Add soda ash (Na2CO3). Allow to aerate. Use mechanical dredges or lifts to remove immobilized masses of pollutants and precipitates. (© AAR, 2003)

#### **Protective Clothing**

Rubber protective equipment, such as apron, boots, splash- proof goggles, gloves; canister-type respirator or self-contained breathing apparatus. (USCG, 1999)

#### **6. ACCIDENTAL RELEASE MEASURES**

#### SMALL SPILL:

Extinguish possible sources of ignition. Evacuate all unprotected personnel and ventilate area. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area. Dike area to contain spill and clean up by absorbing on an inert absorbent or other means. Don't flush into sewers or natural waterways.

#### LARGE SPILL:

eating. Maintain eyewash/safety shower in areas where chemical is handled.

#### 8: PHYSICAL and CHEMICAL PROPERTIES

- 8.1 APPEARANCE: Yellow to dark green liquid.
- 8.2 PH value: N/A
- 8.3 melting point(C): 300
- 8.4 relative density(Water=1): 2.2
- 8.5 relative steam density(Water=1): N/A
- 8.6 saturation VAPOR PRESSURE(Kpa): N/A
- 8.7 critical temperature(C): N/A
- 8.8 critical pressure (mpa): N/A
- 8.9 flash point(C): N/A
- 8.10 upper limit of exploding%(v/v): N/A
- 8.11 lower limit of exploding%(v/v): N/A
- 8.12 burn temperature(C): N/A
- 8.13 resolvable: soluble in water and alcohol
- 8.14 main application: dyeing, leather produce, fertilizer, man-made fiber, copper mine.

#### 9: STABILITY and REACTIVITY

- 9.1 STABILITY: easily being deliquescent, Melting point decomposes out hydrogen sulfide
- 9.2 KEEP AWAY: STRONG ACID, flammable, water, peroxide.
- 9.3 AVOID: moist air.
- 9.4 outcome of decompounding: hydrogen sulfide of strong toxicity

#### 10: TOXICOLOGICAL INFORMATION

strong toxicity

#### 11: ECOLOGICAL INFORMATION

ECOLOGICAL toxicity: alkalescency, sulfa-, water pollution, especial notice of plant and hygrophyte.

#### 12: DISPOSAL CONSIDERATIONS

- 12.1 specialty of trash: toxicity
- 12.2 method of disposal: reaction with iron powder in water, then diluting at last coming into the system of waste water.
- 12.3 notice of disposal: refer to concerned rule of law before disposing.

#### 13: TRANSPORT INFORMATION

- 13.1 CODE OF DANGEROUS CARGO: refer to 95007
- 13.2 PACKING MARK: Corrosive
- 13.3 Packing Group: II
- 13.4 PACKING METHOD: two layer polyethylene bag with containing a sealed PE liner.
- 13.5 notice of TRANSPORT: forbidding TRANSPORTING TOGETHER
  WITH acid, flammable, food, and Corrosive. Avoid
  solarization, drench, be heated. Keep packing in good
  condition.

#### 14: Rule of Law Information

Safety Management Rules of Dangerous Chemical Goods (State
Department NO. 344, putting in practice since 2002.3.1).
Rules of Safe Using Chemical Goods in work area ([1996] NO.X issued by Labor
Department) and so on. Those Rules have corresponding
regulation about Chemical Goods of safe using, producing, depositing, transporting. State
Standard GB13690-92 《Class and Mark of Usual Chemical Goods; this Specification is compiled
according to State Standard 16483-2000 《 Rules of Compiling Specification of Safety
technology of Chemical Goods 》.

Date of origination of this MSDS is June 24, 2008

CES 2438



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 9/22/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # -2438

**Expiration Date** 9/22/2010

**Producer:** CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Hydrofluorosilicic acid

**Container Type:** 

**Detailed Description of Process Generating or Producing the Material / Product:** 

Consolidated from removal of heel prior to cleaning railcars

Color: colorless Odor: sour

**Physical State:** 

Incompatibilities: Strong alkalies, metals, glass, stoneware, strong concentrated acids

**pH:** <2

such as sulfuric and perchloric acids

Safety Related Data/Special Handling:

std for handling low pH materials

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 **ISWR No: 30900** 

SECTION 1: Mater	ial Producer Informat	ion			
Company:	CES Environmental				
Address:	4904 Griggs Rd				
City, State, Zip:	Houston, TX 77021				_
Contact:	<del></del>		Title:		
Phone No:	713-676-1460		Fax No:	713-676-1676	
24/hr Phone:					
U.S. EPA I.D. No:	TXD008950461	<del></del>	<del></del>		
State I.D.	30900		SIC Code:		
	Information – San SAME	ne as Above			
City, State, Zip:					_
Contact:		Title:		<del> </del>	
Phone No:		Fax No:			<u>,,</u>
SECTION 3: Genera	al Description of the M	Iaterial / Product		, +1 Com	
Name of Material / P	roduct: Hydrofluorosi	licic acid		on solidated from removal of heel prior to cleaning	g rail cars
Physical State:	<ul><li>☑ Liquid</li><li>☐ Solid</li></ul>	Sludge Filter Cake	☐ Powder ☐ Combination	n	
Color: colorless	Ode	or: sour			
Specific Gravity (was	ter=1): <u>1.23</u>	<b>Density:</b> <u>10.27</u> lbs/gal			
Layers:	<b>⊠</b> Single-phase	☐ Multi-phase			
Containar Tymas	☐ Drum	<b>∑</b> Tote	☐ Truck	Other (explain)	
Container Type:	□ ⊅ւնա		Iruck	U Other (explain)	
Container Size:		<u>300</u>		<del></del>	
Frequency:	☐ Weekly	Monthly	Quarterly	☐ Yearly	
Number of Units (con	ntamers): 4	Other: ONE TIME	<u>2</u>		
Proper U.S. DOT Sh	• • •	FLUOROSILICIC			
Class: 8	UN/NA:	UN1778	PG: II	RQ: No	one
			_	<del></del>	
	T L		77/	T ~ 3.3	
Flash Point		7/ <b>A</b>	N/A	Solids	
NA On a G	<u>&lt;2</u>	7.	<u> </u>	0%	
Oil&Grease	TOC	Zinc	Copper	Nickel	
<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>O</u> mg/l	

# **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Hydrofluorosilicic Acid	100	%
		<del> </del>
SECTION 5: Safety Related Data		
If the handling of this material / product requires the use of special p Standard for handling low pH	rotective equipment, please explain	<b>1.</b>
SECTION 6. Attached Supporting Documents		
SECTION 6: Attached Supporting Documents		<b></b>
SECTION 6: Attached Supporting Documents  List all documents, notes, data, and/or analysis attached to this form a  MSDS	ns part of the material / product pro	ofile.
List all documents, notes, data, and/or analysis attached to this form a MSDS	ns part of the material / product pro	ofile.
List all documents, notes, data, and/or analysis attached to this form a MSDS  SECTION 7: Incompatibilities	ns part of the material / product pro	ofile.
List all documents, notes, data, and/or analysis attached to this form a MSDS  SECTION 7: Incompatibilities  Please list all incompatibilities (if any):		ofile.
List all documents, notes, data, and/or analysis attached to this form a MSDS  SECTION 7: Incompatibilities		ofile.
List all documents, notes, data, and/or analysis attached to this form a MSDS  SECTION 7: Incompatibilities  Please list all incompatibilities (if any): STRONG ALKILIES, METALS, GLASS, STONEWARE, STRONG COAS SULFURIC AND PERCHLORIC ACIDS.		ofile.
List all documents, notes, data, and/or analysis attached to this form a MSDS  SECTION 7: Incompatibilities  Please list all incompatibilities (if any): STRONG ALKILIES, METALS, GLASS, STONEWARE, STRONG COAS SULFURIC AND PERCHLORIC ACIDS.  SECTION 8: Material Producer's Certification	NCENTRATED ACIDS SUCH	
List all documents, notes, data, and/or analysis attached to this form a MSDS  SECTION 7: Incompatibilities  Please list all incompatibilities (if any): STRONG ALKILIES, METALS, GLASS, STONEWARE, STRONG COAS SULFURIC AND PERCHLORIC ACIDS.	NCENTRATED ACIDS SUCH  and/or □ analytical data. I hereby ceedge and ability to determine that it	ertify that the above no deliberate or v

Printed Name/Title:	
Technical Manager:	Process Facility Information:
Date: 9-72-08 Approved Rejected	
Approval Number: 2438	



# **Material / Product Approval Letter**

Date 5/27/2009

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-2440

**Expiration Date** 5/27/2011

**Producer:** CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Ethoxylated alcohol

**Container Type:** 

**Detailed Description of Process Generating or Producing the Material / Product:** 

Unused product being removed from rail car prior to cleaning

Color: clear to white Odor: sweet, pungent **pH:** 6.8

**Physical State:** 

Incompatibilities: strong oxidizers, inorganic acids, halogens

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# CES Environmental Services, Inc.

Joe Comp

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

<b>SECTION 1:</b> Mate	rial Producer Inforn	nation 1 1 0			
Company:	CE2 G	nvironmental S	ervices, Inc.		
Address:		· · · · · · · · · · · · · · · · · · ·			
City, State, Zip:					
Contact:			Title:		
Phone No:			Fax No:		
24/hr Phone:					
U.S. EPA I.D. No:					
State I.D.			SIC Code:		
SECTION 2: Billin	g Information – 🔀	Same as Above			
Company:					
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax N	0:		
<del></del>					
<b>SECTION 3: Gener</b>	al Description of th	e Material / Product			
	<b>~1</b> 1.	1411 (141			
Name of Material / ]	Product: ETNOX	nated Miconol	11		product being from rail-car prior cleaning.
<b>Detailed Description</b>	of Process Generat	ing or Producing the N	Iaterial / Product: 👤	<u>Nozen</u>	product being
				PINANIP	d'from railtar orion
		_	_ '	C	
Physical State:	🔀 Liquid	<b>∐</b> Sludge	Powder	4	o cleaning,
	☐ Solid	☐ Filter Cake	Combination		J
color: clear to	cloudy white	odor: <u>sw</u> eet, pu	ngent		
	1 2	<i>)</i> (	9		
Specific Gravity (wa	iter=1): <u>0.08</u>	Density:lbs/	gal		
Does this material co	ontain any total phe	nolic compounds?	Yes No		
			_		
Does this material co	ontain any para sub	stituted phenolic comp	ounds? 🗌 Yes 🏻 🔀 N	No	
Layers:	Single-phase	☐ Multi-pha	se		
Container Type:	Drum	☐ Tote	Truck		Other (explain)
				L	other (explain)
Container Size:	<u>55ga</u> 1,		6500 gali		
		·			
Frequency:	☐ Weekly	☐ Monthly	Quarterly		Yearly
Number of Units (co	ntainers):	Other:	•		
				. 1\	M (M 1 1
	<u>.</u>	nvironmentally ho	Izardovs substance	2, liqu	oid, n.v.s. (Alcohol
Proper U.S. DOT Sh	ipping Name:	Cla-clh	poly (1-6) ethor	Mate	). Marine nollistant
Class:	(ÚN)N	A: UN 3082	PG:	1,	2), Marine pollutant RQ:
	<u> </u>	リハ シバム	111		•

Flash Point	pH / O	N/A	N/A		Solids	
147°C	bu 6.8	TVIA	1071			%
Oil&Grease	TOC	Zinc	Copper	Nickel		
mg/l	mg/l	mg/l	mg/l		mg/l	
SECTION 4: Physic						
/Dl 4	COMPONE			<u>Concentratio</u>		Units
	<u> </u>	sts of the following material	is 1	Ranges are accep		or %
Ethoxylate	ed Alcohol			100°/6		
<u> </u>	<del>_</del> -	<u> </u>				
				<del></del>	<del></del>	<del> </del>
		<u>.                                    </u>				
SECTION 6: Attack List all documents, 1 — MSDS SECTION 7: Incom Please list all incomp	hed Supporting Dotes, data, and/or apatibilities patibilities (if any)	analysis attached to this for	orm as part of tl			
attached description omissions of compos	ained herein is bas is complete and a ition properties ex ve of all materials	ed on generator knowled courate to the best of my k ist and that all known or sus described by this document.	nowledge and a spected hazards	bility to determin	e that no ed. I cen	o deliberate or willi
CES USE ONLY (DO NO		17				

2440

Approval Number:



# **PROCESS FACILITY INFORMATION (CES USE ONLY!!)**

1.	Base Pricing (including freight):					
	Product Sales will determine price with buyer.					
2.	Contamination Limits (maximum limit before surcharges apply):					
	(no contamination allowed)					
3.	Surcharge Pricing:					
	N/A					
4.	Special Testing Requirements:					
	Visual appearance, check drum labeling.					
5.	Treatment and Handling Protocol:					
	Stardard PPE,					
	Make sure waste labels removed and product labels applied to drums					
	Standard PPE, Make sure waste labels removed and product labels applied to drums before leaving CES. Keep drums sealed unless pulling samples.					
6.	Treated Wastewater Discharge Subcategory:					
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C					



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	N/A
8.	Management for Product Recovered/Recycled (if applicable);
	N/A
- 1	



(281) 588-3492

#### **ALFONIC® 1216 CO-7 Ethoxylate**

# **Material Safety Data Sheet**

# SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Trade name ALFONIC® 1216 CO-7 Ethoxylate

Synonyms Ethoxylated Alcohol

Use Industrial, Industrial & Institutional cleaning

Manufacturer/Supplier Sasol North America Inc.

Address 900 Threadneedle, Ste 100, Houston, TX 77079

**Telephone** CHEMTREC North America Transportation Emergency (24-hr) (800) 424-9300

 CHEMTREC World Wide
 (703) 527-3887

 Other Emergencies (24-hr)
 (337) 494-5142

 MSDS and Product Information (8:00am-4:30pm CST)
 (281) 588-3491

Health and Safety Information (8:00am-4:00pm CST)

E-mail address info@us.sasol.com

# SECTION 2 HAZARDS IDENTIFICATION

#### **Emergency Overview**

Appearance Clear, colorless liquid

Odour sweet pungent

Precautions WARNING! CAUSES EYE IRRITATION. Avoid contact with skin, eyes and clothing.

Wash thoroughly after handling.

Environmental Do not flush into surface water or sanitary sewer system. Toxic to aquatic life. Readily

precautions biodegradable.

#### **Potential Health Effects**

Eyes Irritating to eyes. May cause corneal inflammation.

Skin May cause skin irritation and/or dermatitis. High standards of skin care and personal

hygiene should be exercised at all times.

Inhalation Irritating to respiratory system.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.



Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Additional advice This product contains residual levels of alcohols which, even under normal handling

conditions, may smell and irritate the eyes, nose, and throats of some individuals.

(See Section 11 for Toxicological Information)

#### SECTION 4 FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice.

Wash contaminated clothing before re-use.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

Ingestion If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting

without medical advice. Never give anything by mouth to an unconscious person.

#### SECTION 5 FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

Flash point 147 °C PM 297 °F

Autoignition 354 °C 670 °F

temperature

Flammable limits in Lower explosion limit: Approximately 0.1 %(V)

air % by volume Upper explosion limit: Approximately > 0.9 %(V)

Fire and explosion NFPA Class IIIB combustible liquid.

**Extinguishing media** Water spray or fog, foam, dry chemical, CO2.

**Fire fighting** Wear self contained breathing apparatus for fire fighting if necessary. **instructions** 

Further information Keep containers and surroundings cool with water spray. Do not use a solid water stream

as it may scatter and spread fire. Collect contaminated fire extinguishing water

separately. This must not be discharged into drains.

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#### SECTION 6 ACCIDENTAL RELEASE MEASURES

case of spill or leak

Steps to be taken in Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

#### SECTION 7 HANDLING AND STORAGE

Safe handling advice Take precautionary measures against static discharges.

Storage/Transport Ambient.

pressure

Load/Unload

27 - 43 °C 80 - 110 °F

Storage and handling materials

temperature

Suitable: Carbon steel coated with baked phenolic. Any moisture may cause rusting of carbon steel. If product is moisture free, uncoated carbon steel tanks.

Further information

on storage conditions

When stored in the liquid form, ethoxylates should be padded with a dry inert gas, such as nitrogen, to prevent oxygen or air from entering the tank. Prolonged storage in the presence of air or oxygen may cause product degradation. Oxidation is not expected when stored under a nitrogen atmosphere. Inert gas blanket and breathing system needed to maintain color stability. Use dry inert gas having at least -40 F dew point.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **ENGINEERING MEASURES**

Mechanical ventilation may be necessary if working with this product in enclosed areas and/or at elevated temperatures. Trace amounts of ethylene oxide may be present in the product and could accumulate in vapor spaces of storage or transport vessels.

# PERSONAL PROTECTIVE EQUIPMENT

Eyes When contact with liquid is possible, use a face shield and/or chemical splash goggles. Otherwise use safety glasses with side shields or goggles.

**Skin** Full protective clothing, chemical boots, and chemical gloves.

Inhalation NIOSH-approved organic vapor air-purifying respirator, self-contained breathing apparatus, or air-supplied respirators where there may be potential for overexposure.

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#### **EXPOSURE GUIDELINES**

Components Exposure limit(s)

Ethylene Oxide

OSHA PEL 1 ppm (1.8 mg/m3)

OSHA EL 5 ppm (9 mg/m3)

ACGIH TLV (8-hour) 1 ppm (1.8 mg/m3)

There are no exposure limits established for this product. Trace amounts of ethylene oxide may be present in this product. The ethylene oxide in this product is not expected to result in significant exposures or present a health hazard.

PEL=

Permissible Exposure Limits

TLV= Threshold Limit Value EL=

**Excursion Limit** 

TWA=

Time Weighted Average (8 hr.)

**STEL≃** 

Short Term Exposure Limit (15 min.) Workplace Environmental Exposure Level

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid

Colour Clear, colorless

Odour Sweet, pungent

Form liquid

Boiling point/range

193 °C 379 °F

Vapour pressure < 0.1 psi @ 38 °C

Vapor density

16 - 18

Solubility (water)

Miscible.

**Viscosity** 

15.0 cSt @ 38 °C

Melting point/range

7 - 18 °C 44 - 65 °F

Density

0.985 g/cm3 @ 22 °C

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#### SECTION 10 STABILITY AND REACTIVITY

Conditions to avoid Reacts slowly with air or oxygen. Storage under heated conditions in the presence of air

or oxygen increases reaction rate. For example, after storing at 95 F/35 C for 30 days in

the presence of air, there is measureable oxidation of the ethoxylate. Lower

temperatures will allow for longer storage time and higher temperatures will shorten the

storage time if stored under an air or oxygen atmosphere.

Hazardous decomposition

When storing this product in air or oxygen, decomposition may occur, generating vapors which could be irritating. Mechanical ventilation or exhaust is recommended. Oxidation

products is not expected when stored under a nitrogen atmosphere.

Incompatability with other materials

Can react with strong oxidizers, inorganic acids, and halogens.

Hazardous None. polymerization

# SECTION 11 TOXICOLOGICAL INFORMATION

Some or all of the information provided below is from studies conducted on a similar Additional Remarks

product or products. Life-long consumption of a similar alcohol ethoxylate by laboratory animals was associated with alterations in organ to body weight ratios and inflammation of heart muscle, but only at doses well in excess of expected exposures. Consumption of high concentrations of a similar alcohol ethoxylate by rats was associated with certain effects on offspring (death and soft tissue abnomalities), but only a doses well in excess

of expected exposures.

Eyes Primary irritation (rabbit): 26.3 (Maximum score is 110.)

Skin Primary irritation (rabbit): 4 hours 0.04 (Maximum score is 8.0.)

Acute dermal LD50 (rabbit): > 1,000 mg/kg

Inhalation Acute 4 hours LC50 (rat): 0.22 - 8 mg/l

Ingestion Acute oral LD50 (rat): 1,660 mg/kg

**CARCINOGENICITY** 

Ethylene Oxide

NTP Known to be a human carcinogen.

OSHA Carcinogen and reproductive hazard.

IARC Carcinogenic to humans.

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## SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Toxic to aquatic life.

LC50 (Daphnia) 48 hours 1.3 mg/l Test Substance: (C1214-7.4 ethoxylate) LC50 (Daphnia) 48 hours 1.2 mg/l Test Substance: (C1214-8 ethoxylate) LC50 (Daphnia) 48 hours 1.1 mg/l Test Substance: (C1618-8 ethoxylate)

**Biodegradation** Rapidly and extensively biodegradable.

## **SECTION 13 DISPOSAL CONSIDERATIONS**

Waste Code Any unused product or empty containers may be disposed of as non-hazardous in

accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and

federal (40 CFR 262) hazardous waste regulations.

**Disposal methods** Dispose of only in accordance with local, state, and federal regulations.

Empty containers. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO

NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and

promptly returned to a drum reconditioner, or properly disposed.

#### SECTION 14 TRANSPORT INFORMATION

**DOT description** Environmentally hazardous substance, liquid, n.o.s. (Alcohol C12-C16 poly (1-6)

ethoxylate), 9, UN 3082, III, Marine pollutant

This product is regulated as a hazardous material according to the Department of Transportation in bulk quantities (greater than 119 gallons per package) only.

IATA description This product is not regulated as a dangerous good when shipped by air in quantities less

than 119 gallons per package.

IMDG Environmentally hazardous substance, liquid, n.o.s. (Alcohol C12-C16 poly (1-6)

ethoxylate), 9, UN 3082, III, Marine pollutant

This product is regulated as a Marine Pollutant when shipped by water in all quantities

according to the IMDG Code.



#### SECTION 15 REGULATORY INFORMATION

#### **U.S. FEDERAL REGULATIONS**

**OSHA** classification

Eye irritant

**TSCA Inventory Listing** 

Components

CAS-No.

Alcohols, C10-16, ethoxylated

68002-97-1

**SARA 302 Status** 

Components

CAS-No.

Weight %

Contains no chemicals subject to SARA 302 reporting.

SARA 311/312 Classification

"Immediate (acute) health hazard"

**SARA 313 Chemical** 

Components

CAS-No.

Weight %

Contains no chemicals subject to SARA 313 reporting.

**CERCLA Hazardous Substance** 

**Components** 

**CERCLA RQ** 

Weight %

Contains no chemicals subject to CERCLA.

#### **INTERNATIONAL REGULATIONS**

Workplace Hazardous Materials Information System (WHMIS) Classification

Class D, Division 2, Subdivision B: Toxic material.

Australian Inventory of Chemical Substances (AICS) Listing

Listed on the AICS.

Japanese Minister of International Trade and Industry (MITI) Inventory Listing

Listed on MITI.



Canadian Domestic Substance List (DSL) Inventory Listing Listed on the DSL.

European Inventory of Existing Commercial Chemical Substances (EINECS) Listing Listed on EINECS.

Phillipines Inventory List (PICCS)

Listed on PICCS.

**Korean Inventory List** 

Listed on the ECL.

**China Inventory List** 

Listed on the China inventory.

#### STATE REGULATIONS

California Safe Drinking Water Act (Prop 65) Listing Components

CAS-No.

Ethylene Oxide

75-21-8

Sasol North America Inc. ethoxylates may contain detectable quantities of ethylene oxide which is a chemical on the California Proposition 65 list. The level is typically below 1.0 ppm, although it may vary. The manufacturing process is controlled to reduce the residual ethylene oxide content.

#### SECTION 16 OTHER INFORMATION

#### **HAZARD RATINGS**

	<u>Health</u>	<u>Flammability</u>	Reactivity
HMIS	2	1	0
NFPA	1	1	0

THE DATA AND INFORMATION CONTAINED HEREIN ARE BEING FURNISHED FOR INFORMATIONAL PURPOSES ONLY, UPON THE EXPRESS CONDITION THAT EACH CUSTOMER SHALL MAKE ITS OWN ASSESSMENT OF APPROPRIATE USE AND APPROPRIATE SHIPPING, TRANSFER AND STORAGE MATERIALS AND PROCEDURES FOR SASOL NORTH AMERICA'S PRODUCTS. ALTHOUGH BASED ON INFORMATION SOURCES WHICH SASOL NORTH AMERICA CONSIDERS ACCURATE AND RELIABLE, SASOL NORTH AMERICA MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE VALIDITY OF THIS INFORMATION, THE INFORMATION SOURCES UPON WHICH THE SAME ARE BASED, OR THE RESULTS TO BE OBTAINED, AND EXPRESSLY DISCLAIMS LIABILITIES FOR DAMAGES OR INJURIES RESULTING FROM THE USE THEREOF.



#### ALFONIC® 1412-7 Ethoxylate

# **Material Safety Data Sheet**

# SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade name ALFONIC® 1412-7 Ethoxylate

Synonyms Ethoxylated Alcohol, Laureth-7, Pareth-7

Manufacturer/Supplier Sasol North America Inc.

Address 900 Threadneedle, Houston, TX 77079

Telephone CHEMTREC North America Transportation Emergency (24-hr)

(800) 424-9300

CHEMTREC World Wide

(703) 527-3887

Other Emergencies (24-hr)

(337) 494-5142

MSDS and Product Information (8:00am-4:30pm CST) Health and Safety Information (8:00am-4:00pm CST)

(281) 588-3491 (281) 588-3492

## SECTION 2 COMPOSITION AND INFORMATION ON INGREDIENTS

Components

CAS-No.

Weight %

Alcohols, C10-16, ethoxylated

68002-97-1

100

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

# SECTION 3 HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

Appearance

Cloudy, liquid

Odor Sweet, pungent

Precautions WARNING! CAUSES EYE IRRITATION. Avoid contact with eyes. Wash thoroughly

after handling.

Environmental Do not flush into surface water or sanitary sewer system.

precautions

Toxic to aquatic organisms. Product will biodegrade rapidly in the environment

especially under waste treatement plant conditions.

#### POTENTIAL HEALTH EFFECTS

Eyes Irritating to eyes. May cause corneal inflammation.

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#### **ALFONIC® 1412-7 Ethoxylate**

Skin Repeated or prolonged contact can cause redness, irritation and scaling of the skin

(dermatitis). Normal care and personal hygiene should prevent skin effects.

Inhalation Irritating to respiratory system.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Additional advice This product contains residual levels of alcohols which, even under normal handling

conditions, may smell and irritate the eyes, nose, and throats of some individuals.

(See Section 11 for Toxicological Information)

#### SECTION 4 FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice.

Wash contaminated clothing before re-use.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

Ingestion If swallowed, call a physician or poison control center immediately. Do not induce vomiting

without medical advice. Never give anything by mouth to an unconscious person.

# SECTION 5 FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

Flash point 166 °C 330 °F

Autoignition 349 °C 660 °F temperature

Flammable limits in Lower explosion limit: Approximately 0.1 %(V) air % by volume Upper explosion limit: Approximately 0.9 %(V)

Fire and explosion NFPA Class IIIB combustible liquid.

Extinguishing media Water spray or fog, foam, dry chemical, CO2.

Fire fighting Wear self contained breathing apparatus for fire fighting if necessary. instructions

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Further information

Keep containers and surroundings cool with water spray. Do not use a solid water stream as it may scatter and spread fire. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak

Evacuate personnel to safe areas. Remove all sources of ignition. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Do not flush into surface water or sanitary sewer system.

## SECTION 7 HANDLING AND STORAGE

Electrostatic Take precautionary measures against static discharges.

accummulation

hazard

Storage/Transport

**Ambient** 

pressure

Load/Unload 32 - 49 °C

temperature

90 - 120 °F

Storage and handling

materials

Suitable: Carbon steel coated with baked phenolic. Any moisture may cause rusting

of carbon steel. If product is moisture free, uncoated carbon steel tanks.

Further information on storage conditions

When stored in the liquid form, ethoxylates should be padded with a dry inert gas, such as nitrogen, to prevent oxygen or air from entering the tank. Prolonged storage in the presence of air or oxygen may cause product degradation. Oxidation is not expected when stored under a nitrogen atmosphere. Inert gas blanket and breathing system needed to maintain color stability. Use dry inert gas having at least -40 F dew point.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **ENGINEERING MEASURES**

Mechanical ventilation may be necessary if working with this product in enclosed areas and/or at elevated temperatures. Trace amounts of ethylene oxide may be present in the product and could accumulate in vapor spaces of storage or transport vessels.

### PERSONAL PROTECTIVE EQUIPMENT

Eyes When contact with liquid is possible, use a face shield and/or chemical splash goggles. Otherwise use safety glasses with side shields or goggles.

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Skin Full protective clothing, chemical boots, and chemical gloves.

Inhalation NIOSH-approved organic vapor air-purifying respirator, self-contained breathing

apparatus, or air-supplied respirators where there may be potential for overexposure.

**EXPOSURE GUIDELINES** 

Components Exposure limit(s)

Ethylene Oxide OSHA PEL 1 ppm(1.8 mg/m3)

OSHA EL 5 ppm(9 mg/m3)

ACGIH TLV (8-hour) 1 ppm(1.8 mg/m3)

There are no exposure limits established for this product. Trace amounts of ethylene oxide may be present in this product. The ethylene oxide in this product is not expected

to result in significant exposures or present a health hazard.

PEL= Permissible Exposure Limits

TLV= Threshold Limit Value

EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)

STEL= Short Term Exposure Limit (15 min.)

WEEL= Workplace Environmental Exposure Level

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid

Colour Cloudy.

Odour Sweet, pungent

Form liquid

Boiling point/range 148 °C 298 °F

Vapour pressure 0.16 hPa @ 93 °C

Vapor density 17 - 18

Solubility (water) Miscible.

Viscosity 35 cSt @ 38 °C

Melting point/range 19 - 25 °C 66 - 77 °F

Specific gravity 0.970 g/cm3 @ 39 °C



## SECTION 10 STABILITY AND REACTIVITY

Conditions to avoid Reacts slowly with air or oxygen. Storage under heated conditions in the presence of air

or oxygen increases reaction rate. For example, after storing at 95 F/35 C for 30 days in

the presence of air, there is measureable oxidation of the ethoxylate. Lower

temperatures will allow for longer storage time and higher temperatures will shorten the

storage time if stored under an air or oxygen atmosphere.

Hazardous decomposition

When storing this product in air or oxygen, decomposition may occur, generating vapors

mposition which could be irritating. Mechanical ventilation or exhaust is recommended. Oxidation is
 products not expected when stored under a nitrogen atmosphere.

Incompatability with other materials

Can react with strong oxidizers, inorganic acids, and halogens.

Hazardous None.

## SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks This product has not been specifically tested. Data for a similar product are provided

below.

Eyes Primary irritation index (rabbit): 50.8 (Maximum score is 110.)

Skin Primary irritation index (rabbit): 24 hours 4.4 (Maximum score is 8.0.)

Acute dermal LD50 (rabbit): 3,870 - 8,000 mg/kg

inhalation Acute LC50 (rat): .22 - 8 mg/l

Ingestion Acute oral LD50 (rat): 2,750 mg/kg

CARCINOGENICITY

Ethylene Oxide

NTP Known to be a human carcinogen.

OSHA Carcinogen and reproductive hazard.

IARC Carcinogenic to humans.

### SECTION 12 ECOLOGICAL INFORMATION

Aquatic toxicity Toxic to aquatic organisms.

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LC50 (Daphnia magna) 48 hours .6 mg/l

Biodegradation Product will biodegrade rapidly in the environment especially under waste treatement

plant conditions.

## SECTION 13 DISPOSAL CONSIDERATIONS

Waste code Any unused product or empty containers may be disposed of as non-hazardous in

accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and

negelar(40-GFR-202) nazardous waste regulations....

Disposal methods Dispose of only in accordance with local, state, and federal regulations.

Empty containers Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO

NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly

returned to a drum reconditioner, or properly disposed of.

### SECTION 14 TRANSPORT INFORMATION

**DOT description** Environmentally hazardous substance, liquid, n.o.s. (Alcohol C12-C16 poly (1-6)

ethoxylate), 9, UN 3082, III Marine pollutant This product is regulated as a hazardous material according to the Department of Transportation in bulk quantities (greater than

119 gallons per package) only.

IATA description This product is not regulated as a dangerous good when shipped by air in quantities less

than 119 gallons per package.

IMDG description Environmentally hazardous substance, liquid, n.o.s. (Alcohol C12-C16 poly (1-6)

ethoxylate), 9, UN 3082, III, Marine pollutant This product is regulated as a Marine

Pollutant when shipped by water in all quantities according to the IMDG Code.



## SECTION 15 REGULATORY INFORMATION

## U.S. FEDERAL REGULATIONS

OSHA classification

Eye irritant

**TSCA Inventory Listing** 

Components

CAS-No.

Alcohols, C10-16, ethoxylated

68002-97-1

SARA 302 Status

Components

CAS-No.

Weight %

Contains no chemicals subject to SARA 302 reporting.

SARA 311/312 Classification

"Immediate (acute) health hazard"

SARA 313 Chemical

Components

CAS-No.

Weight %

Contains no chemicals subject to SARA 313 reporting.

**CERCLA Hazardous Substance** 

Components

**CERCLA RQ** 

Weight %

Contains no chemicals subject to CERCLA.

## **INTERNATIONAL REGULATIONS**

Workplace Hazardous Materials Information System (WHMIS) Classification

Class D, Division 2, Subdivision B: Toxic material.

Australian Inventory of Chemical Substances (AICS) Listing

The components of this product are listed on the AICS.

Japanese Minister of International Trade and Industry (MITI) Inventory Listing

The components of this product are listed on the MITI.

Canadian Domestic Substance List (DSL) Inventory Listing

The components of this product are listed on the DSL.

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### European Inventory of Existing Commercial Chemical Substances (EINECS) Listing

The components of this product are listed on the EINECS listing.

### Phillipines Inventory List (PICCS)

The components of this product are listed on the PICCS.

### Korean Inventory List

The components of this product are listed on the ECL.

### China Inventory List

The components of this product are listed on the China inventory.

### STATE REGULATIONS

### California Safe Drinking Water Act (Prop 65) Listing Components

CAS-No.

Ethylene Oxide

75-21-8

Sasol North America Inc. ethoxylates may contain detectable quantities of ethylene oxide which is a chemical on the California Proposition 65 list. The level is typically below 1.0 ppm, although it may vary. The manufacturing process is controlled to reduce the residual ethylene oxide content.

## SECTION 16 OTHER INFORMATION

### HAZARD RATINGS

	<u>Health</u>	<b>Flammability</b>	Reactivity
HMIS	2	1	0
NFPA	1	1	0

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# **Material Safety Data Sheet**

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Trade name ALFONIC® TDA-3 Ethoxylate

Synonyms Ethoxylated Alcohol

Manufacturer/Supplier Sasol North America Inc.

Address 900 Threadneedle, Houston, TX 77079

Telephone

CHEMTREC North America Transportation Emergency (24-hr)

(800) 424-9300

CHEMTREC World Wide

(703) 527-3887

Other Emergencies (24-hr)

(337) 494-5142

MSDS and Product Information (8:00am-4:30pm CST)

(281) 588-3491

Health and Safety Information (8:00am-4:00pm CST)

(281) 588-3492

## SECTION 2 COMPOSITION AND INFORMATION ON INGREDIENTS

Components

Isotridecanol, ethoxylated

Weight %

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

### SECTION 3 HAZARDS IDENTIFICATION

### **Emergency Overview**

Clear, colorless liquid

Odour

mild

**Precautions** 

**Appearance** 

WARNING! CAUSES EYE AND SKIN IRRITATION. Avoid contact with skin, eyes and

clothing. Wash thoroughly after handling.

Environmental

precautions

Do not flush into surface water or sanitary sewer system. Toxic to aquatic organisms.

Biodegradable. Not expected to present a hazard to downstream aquatic life (fish,

invertebrates and phytoplankton).

Potential Health Effects

Eyes Irritating to eyes. May cause corneal inflammation.

Skin

May cause skin irritation and/or dermatitis. High standards of skin care and personal

hygiene should be exercised at all times.

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Inhalation Irritating to respiratory system.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Additional advice This product contains residual levels of alcohols which, even under normal handling

conditions, may smell and irritate the eyes, nose, and throats of some individuals.

(See Section 11 for Toxicological Information)

## SECTION 4 FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice.

Wash contaminated clothing before re-use.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

Ingestion If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting

without medical advice. Never give anything by mouth to an unconscious person.

## SECTION 5 FIRE-FIGHTING MEASURES

### FLAMMABLE PROPERTIES

Flash point > 136 °C 277 °F

Autoignition approximately 330 °C

temperature

Flammable limits in Lower explosion limit: no data available Upper explosion limit: no data available

Fire and explosion NFPA Class IIIB combustible liquid.

**Extinguishing media** Water spray or fog, foam, dry chemical, CO2.

**Fire fighting** Wear self contained breathing apparatus for fire fighting if necessary. **instructions** 

Further information Keep containers and surroundings cool with water spray. Do not use a solid water stream

as it may scatter and spread fire. Collect contaminated fire extinguishing water

separately. This must not be discharged into drains.

626 °F



### SECTION 6 ACCIDENTAL RELEASE MEASURES

Steps to be taken in Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and case of spill or leak then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

## SECTION 7 HANDLING AND STORAGE

Safe handling advice Take precautionary measures against static discharges.

Storage/Transport **Ambient** 

pressure

Load/Unload 15 - 38 °C

temperature 60 - 100 °F

Storage and handling Suitable: Carbon steel coated with baked phenolic. Any moisture may cause rusting of materials

carbon steel. If product is moisture free, uncoated carbon steel tanks.

Further information on storage conditions

When stored in the liquid form, ethoxylates should be padded with a dry inert gas, such as nitrogen, to prevent oxygen or air from entering the tank. Prolonged storage in the presence of air or oxygen may cause product degradation. Oxidation is not expected when stored under a nitrogen atmosphere. Inert gas blanket and breathing system needed to maintain color stability. Use dry inert gas having at least -40 F dew point.

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **ENGINEERING MEASURES**

Ensure adequate ventilation, especially in confined areas. Trace amounts of ethylene oxide may be present in the product and could accumulate in vapor spaces of storage or transport vessels.

### PERSONAL PROTECTIVE EQUIPMENT

Eyes Chemical resistant goggles must be worn.

**Skin** Full protective clothing, chemical boots, and chemical gloves.

**Inhalation** Use NIOSH approved respiratory protection.

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#### **EXPOSURE GUIDELINES**

Components Exposure limit(s)

Ethylene Oxide OSHA PEL 1 ppm 1.8 mg/m3

OSHA EL 5 ppm 9 mg/m3

ACGIH TLV (8-hour) 1 ppm 1.8 mg/m3

There are no exposure limits established for this product. Trace amounts of ethylene oxide may be present in this product. The ethylene oxide in this product is not expected to result in significant exposures or present a health hazard.

PEL= Permissible Exposure Limits

TLV= Threshold Limit Value

EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)

STEL= Short Term Exposure Limit (15 min.)

WEEL= Workplace Environmental Exposure Level

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid

Colour Clear, colorless

Odour mild

Form liquid

Boiling point/range ca. 250 - 270 °C 482 - 518 °F

Vapour pressure ca. 0.01 hPa @ 20 °C

Vapor density ca. 11

Solubility (water) Dispersible

Viscosity 3.76 cSt @ 100 °C

18.7 cSt @ 40 °C

Viscosity, dynamic ca. 15 mPa.s @ 50 °C

Melting point/range < -5 °C 23 °F 0 °C 32 °F Pour point

**Density** 7.73 lb/gal @ 21 °C

Specific gravity 0.98 @ 40 °C

**pH** 5-7



## SECTION 10 STABILITY AND REACTIVITY

Conditions to avoid Reacts slowly with air or oxygen. Storage under heated conditions in the presence of air

or oxygen increases reaction rate. For example, after storing at 95 F/35 C for 30 days in

the presence of air, there is measureable oxidation of the ethoxylate. Lower

temperatures will allow for longer storage time and higher temperatures will shorten the

storage time if stored under an air or oxygen atmosphere.

Hazardous decomposition

When storing this product in air or oxygen, decomposition may occur, generating vapors

which could be irritating. Ensure adequate ventilation, especially in confined areas.

**products** Oxidation is not expected when stored under a nitrogen atmosphere.

Incompatability with other materials

Can react with strong oxidizers, inorganic acids, and halogens.

Hazardous polymerization

None.

## SECTION 11 TOXICOLOGICAL INFORMATION

Additional Remarks Some or all of the information provided below is from studies conducted on a similar

product or products.

Eves Primary irritation (rabbit): 29.3 (Maximum score is 110.)

Skin Primary irritation (rabbit): 4 hours 6.3 - 7.1 (Maximum score is 8.0.)

Inhalation no data available

Ingestion Acute oral LD50 (rat): > 2,000 mg/kg

CARCINOGENICITY

Ethylene Oxide

NTP Known to be a human carcinogen.

OSHA Carcinogen and reproductive hazard.

IARC Carcinogenic to humans.

## SECTION 12 ECOLOGICAL INFORMATION

**Aquatic toxicity** Toxic to aquatic organisms.



LC50 (Brachydanio rerio) 96 hours: 5.8 mg/l EC 92/69

Test Substance: C13-3 ethoxylate

LC0 (Brachydanio rerio) 96 hours: 5 mg/l EC 92/69

Test Substance:C13-3 ethoxylate

EC50 (Daphnia) 48 hours: 2.5 mg/l EC 92/69

Test Substance: (C13-3 ethoxylate)

EC10 (Pseudomonas putida (bacteria)) 5 hours: > 1,900 mg/l Oxygen Consumption Test

Test Substance: C13-3 ethoxylate

EC50 (S. subspicatus (algae)) 72 hours: 7.2 mg/l EC 92/69 NOEC (S. subspicatus (algae)) 72 hours: 2.4 mg/l EC 92/69

Test Substance: C13-3 ethoxylate

Biodegradation Biodegradable. Not expected to present a hazard to downstream aquatic life (fish,

invertebrates and phytoplankton).

## SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code Any unused product or empty containers may be disposed of as non-hazardous in

accordance with state and federal requirements. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification. If the resulting material is determined to be hazardous, please dispose in accordance with state and

federal (40 CFR 262) hazardous waste regulations.

**Disposal methods** Dispose of only in accordance with local, state, and federal regulations.

Empty containers. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO

NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, triple-rinsed, properly bunged and

promptly returned to a drum reconditioner, or properly disposed.

## SECTION 14 TRANSPORT INFORMATION

DOT UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Alcohol C12-C16 poly (1-6) ethoxylate), 9, III, Marine pollutant

5) ethoxylate), 9, 111 , Marine polititant This product is regulated as a bazardous mate

This product is regulated as a hazardous material according to the Department of Transportation in bulk quantities (greater than 119 gallons per package) only.

**IATA** This product is not regulated as a dangerous good when shipped by air in quantities less than 119 gallons per package.



IMDG UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Alcohol C12-C16 poly (1-6) ethoxylate), 9, III, Marine pollutant

This product is regulated as a Marine Pollutant when shipped by water in all quantities according to the IMDG Code.

## **SECTION 15 REGULATORY INFORMATION**

## U.S. FEDERAL REGULATIONS

**OSHA** classification

Eye and skin irritant

**TSCA Inventory Listing** 

<u>CAS-No.</u>

Poly(oxy-1,2-ethanediyl), a-isotridecyl-w-hydroxy- 9043-30-5

SARA 302 Status

Components CAS-No. Weight %

Contains no chemicals subject to SARA 302 reporting.

SARA 311/312 Classification

"Immediate (acute) health hazard"

SARA 313 Chemical

Components CAS-No. Weight %

Contains no chemicals subject to SARA 313 reporting.

**CERCLA Hazardous Substance** 

Components CERCLA RQ Weight %

Contains no chemicals subject to CERCLA.

INTERNATIONAL REGULATIONS

Workplace Hazardous Materials Information System (WHMIS) Classification Class D, Division 2, Subdivision B: Toxic material.

Australian Inventory of Chemical Substances (AICS) Listing

Listed on the AICS.

EPAHO107001663



## Japanese Minister of International Trade and Industry (MITI) Inventory Listing Listed on MITI.

Canadian Domestic Substance List (DSL) Inventory Listing Listed on the DSL.

## European Inventory of Existing Commercial Chemical Substances (EINECS) Listing Listed on EINECS.

## Philippines Inventory List (PICCS)

Listed on PICCS.

## Korean Inventory List

Listed on the ECL.

### **China Inventory List**

Listed on the China inventory.

## **STATE REGULATIONS**

## California Safe Drinking Water Act (Prop 65) Listing Components

CAS-No.

Ethylene Oxide

75-21-8

Sasol North America Inc. ethoxylates may contain detectable quantities of ethylene oxide which is a chemical on the California Proposition 65 list. The level is typically below 1.0 ppm, although it may vary. The manufacturing process is controlled to reduce the residual ethylene oxide content.

## **SECTION 16 OTHER INFORMATION**

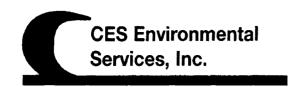
### HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	Reactivity
HMIS	2	1	0
NFPA	1	1	0



THE DATA AND INFORMATION CONTAINED HEREIN ARE BEING FURNISHED FOR INFORMATIONAL PURPOSES ONLY, UPON THE EXPRESS CONDITION THAT EACH CUSTOMER SHALL MAKE ITS OWN ASSESSMENT OF APPROPRIATE USE AND APPROPRIATE SHIPPING, TRANSFER AND STORAGE MATERIALS AND PROCEDURES FOR SASOL NORTH AMERICA'S PRODUCTS. ALTHOUGH BASED ON INFORMATION SOURCES WHICH SASOL NORTH AMERICA CONSIDERS ACCURATE AND RELIABLE, SASOL NORTH AMERICA MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, REGARDING THE VALIDITY OF THIS INFORMATION, THE INFORMATION SOURCES UPON WHICH THE SAME ARE BASED, OR THE RESULTS TO BE OBTAINED, AND EXPRESSLY DISCLAIMS LIABILITIES FOR DAMAGES OR INJURIES RESULTING FROM THE USE THEREOF.

Version date: 04/06/2007 Version 2.0 Print date: 04/06/2007 110000001892 Page 9 of 9



## Waste Pre-Acceptance/Approval Letter

Date 5/21/2009

Dear Matt Bowman

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-2457

**Expiration Date** 5/21/2011

Generator: CES Environmental Services, Inc.

Address:

4904 Griggs Rd

Houston, TX 77021

## Waste Information

Name of Waste: Toluene
TCEQ Waste Code #: Product

Container Type:

**Detailed Description of Process Generating Waste:** 

Consolidated and sold as it comes.

Color: Ideally wate white / var Odor: Paint thinner

pH: N/A

**Physical State:** 

Incompatibilities: Heat, flame, strong oxidizer, nitric, and sulfuric acid, chlorine,

nitrogen tetraoxide, some plastics, rubber, and coatings.

Safety Related Data/Special Handling:

Standard PPE for handling solvents and other flammable hazardous materials

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road, l Phone: (713) 676-14 TCEQ Industrial So		CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Drive, Port Arthur, TX 77641   Phone: (713) 676-1460   Fax: (713) 676-1676   U.S. EPA ID No: TXR000079307 ISWR No: 88585
SECTION 1: Mater	rial Producer Information	
Company:	CES Environmental Services, Inc.	
Address:	4904 Griggs Rd.	
City, State, Zip:	Houston, TX 77021	
Contact:	Matt Bowman	Title: President
Phone No:	713-676-1460	Fax No: 713-748-8664
24/hr Phone:		
U.S. EPA I.D. No:		
State I.D.		SIC Code:
SECTION 2. Date.	g Information – 🛛 Same as Above	
Company:	g Information – M Same as Above	
Address:	<del></del>	
City, State, Zip:		
Contact:	Title:	<del> </del>
Phone No:	Fax No:	
	【 Comes .  ☑ Liquid ☐ Sludge ☐ Solid ☐ Filter Cake	terial/Product: Consolidated and Powder Combination
Does this material co	ontain any total phenolic compounds? 🗌 Ye	s 🗵 No
Does this material co	ontain any para substituted phenolic compou	nds? 🗌 Yes 🛮 No
Layers:		
Container Type:	☐ Drum ☐ Tote [	☐ Other (explain)
Container Size:		6500 gal.
	<del></del>	
Frequency:	☐ Weekly ☐ Monthly [	☑ Quarterly ☐ Yearly
Proper U.S. DOT Sh	hipping Name: Toluene; Flammabl	e Liquid
<del>-</del>	<u> </u>	·
Class: 3	<b>UN/NA:</b> UN1294	PG: II RQ: <b>/0</b> 00

Flash Point 39 F	pH NA	N/A	N/A	Solids 0%	
Oil&Grease Omg/l	TOC _MA_mg/l	Zinc mg/l	Copper	Nickel <u>ルム</u> mg/l	

### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The material / product consists of the following materials	Concentration  Ranges are acceptable	Units or %
Toluene	100%	100%
		<del> </del>
		<del>                                     </del>

### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain. Standard PPE for handling solvents and other flammable hazardous materials

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. MSDS

### **SECTION 7: Incompatibilities**

**Authorized Signature:** 

Please list all incompatibilities (if any):

Heat, flame, strong oxidizers, nitric and sulfuric acids, chlorine, nitrogen tetraoxide, some plastics, rubber, and coatings

SECTI	ON 8:	Material	Producer'	's Cer	tification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Date: 05/20/2009

Printed Name/Title: Joe Camp / Product Sales	
Technical Manager: Resolution This space)  Date: 5-21-09 Approved Rejected  Approval Number: 2457	



## **PROCESS FACILITY INFORMATION (CES USE ONLY!!)**

1.	Base Pricing (including freight):
	CES will sell as product
2.	Contamination Limits (maximum limit before surcharges apply):
	N/A
3.	Surcharge Pricing:
	N/A
ւ 4.	Special Testing Requirements:
	Check specific gravity, check to see if the material contains any solids or multiple layers (which it should not), note the color (material should be water white, but color varies sometimes)
5.	Treatment and Handling Protocol:
	Standard hazardous materials (flammable) PPE and handling
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7.	Tests for Product Recovered/Recycled (if applicable):
	N/A
8.	Management for Product Recovered/Recycled (if applicable);
8.	
8.	Management for Product Recovered/Recycled (if applicable); N/A
8.	
8.	
8.	

MSDS Number: T3913 \* \* \* \* \* Effective Date: 12/07/07 \* \* \* \* \* Supercedes: 10/05/06

MSDS Material Safety Data Sheet

Mallinckrodt CHEMICALS

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtree: 703-527-3687

NOTE: CHEMTREC, CANUTEC and Nations Persponse Center emergency numbers to be used only in the event of chemical emergenc swoking a epit, leak, fire, exposure or goods

00-592-2537) for assist

## **TOLUENE**

### 1. Product Identification

Synonyms: Methylbenzene; Toluol; Phenylmethane

CAS No.: 108-88-3 Molecular Weight: 92.14 Chemical Formula: C6H5-CH3

**Product Codes:** 

J.T. Baker: 5375, 5812, 9336, 9351, 9364, 9456, 9457, 9459, 9460, 9462, 9466, 9472, 9476

Mallinckrodt: 4483, 8092, 8604, 8608, 8610, 8611, V560

### 2. Composition/Information on Ingredients

Ingredient Percent Hazardous Toluene 108-88-3 100% Yes

### 3. Hazards Identification

### **Emergency Overview**

POISON! DANGER! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. VAPOR HARMFUL. FLAMMABLE LIQUID AND VAPOR. MAY AFFECT LIVER, KIDNEYS, BLOOD SYSTEM, OR CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate (Life)

Flammability Rating: 3 - Severe (Flammable) Reactivity Rating: 1 - Slight Contact Rating: 3 - Severe (Life)

Lab Protective Equip: GOGGLÉS & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER

Storage Color Code: Red (Flammable)

#### Potential Health Effects

### Inhalation:

Inhalation may cause irritation of the upper respiratory tract. Symptoms of overexposure may include fatigue, confusion, headache, dizziness and drowsiness. Peculiar skin sensations (e. g. pins and needles) or numbness may be produced. Very high concentrations may cause unconsciousness and death.

Swallowing may cause abdominal spasms and other symptoms that parallel over-exposure from inhalation. Aspiration of material into the lungs can cause chemical pneumonitis, which may be fatal.

Skin Contact:

Causes irritation. May be absorbed through skin.

**Eye Contact:** 

Causes severe eye irritation with redness and pain.

Chronic Exposure:

Reports of chronic poisoning describe anemia, decreased blood cell count and bone marrow hypoplasia. Liver and kidney damage may occur. Repeated or prolonged contact has a defatting action, causing drying, redness, dermatitis. Exposure to toluene may affect the developing fetus.

Aggravation of Pre-existing Conditions:

Persons with pre-existing skin disorders or impaired liver or kidney function may be more susceptible to the effects of this substance. Alcoholic beverage consumption can enhance the toxic effects of this substance.

### 4. First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. CALL A PHYSICIAN IMMEDIATELY.

Ingestion:

Aspiration hazard. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately. If vomiting occurs, keep head below hips to prevent aspiration into lungs.

In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician immediately.

**Eye Contact:** 

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately,

### 5. Fire Fighting Measures

Flash point: 7C (45F) CC

Autoignition temperature: 422C (792F) Flammable limits in air % by volume:

lel: 1.1; uel: 7.1

Flammable liquid and vapor!

Dangerous fire hazard when exposed to heat or flame. Vapors can flow along surfaces to distant ignition source and flash back.

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Contact with strong oxidizers may cause fire or explosion. Sensitive to

static discharge.
Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures,

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water spray may be used to keep fire exposed containers cool.

### 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker SOLUSORB® solvent adsorbent is recommended for spills of this product.

### 7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

### 8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Toluene:

- OSHA Permissible Exposure Limit (PEL):

200 ppm (TWA); 300 ppm (acceptable ceiling conc.); 500 ppm (maximum conc.).

- ACGIH Threshold Limit Value (TLV): 20 ppm (TWA), A4 - Not Classifiable as a Human Carcinogen.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

### 9. Physical and Chemical Properties

Appearance: Clear, colorless liquid. Odor: Aromatic benzene-like. Solubility: 0.05 gm/100gm water @ 20C (68F). Specific Gravity: 0.86 @ 20C / 4 C pH: No information found. % Volatiles by volume @ 21C (70F): 100 **Boiling Point:** 111C (232F) **Melting Point:** -95C (-139F) Vapor Density (Air=1): Vapor Pressure (mm Hg): 22 @ 20C (68F)

### 10. Stability and Reactivity

Evaporation Rate (BuAc=1):

Stability:

Stable under ordinary conditions of use and storage. Containers may burst when heated.

**Hazardous Decomposition Products:** 

Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Heat, flame, strong oxidizers, nitric and sulfuric acids, chlorine, nitrogen tetraoxide; will attack some forms of plastics, rubber, coatings.

Conditions to Avoid:

Heat, flames, ignition sources and incompatibles.

### 11. Toxicological Information

Toxicological Data:

Oral rat LD50: 636 mg/kg; skin rabbit LD50: 14100 uL/kg; inhalation rat LC50: 49 gm/m3/4H; Irritation data: skin rabbit, 500 mg, Moderate; eye rabbit, 2 mg/24H, Severe. Investigated as a tumorigen, mutagen, reproductive effector.

Reproductive Toxicity:

Has shown some evidence of reproductive effects in laboratory animals.

\Cancer Lists\			
	NTP	Carcinogen	
Ingredient	Known	Anticipated	IARC Category
Toluene (108-88-3)	No	No	3

### 12. Ecological Information

**Environmental Fate:** 

When released into the soil, this material may evaporate to a moderate extent. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material may evaporate to a moderate extent. When released into water, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day. This material is not expected to significantly bioaccumulate. This material has a log octanol-water partition coefficient of less than 3.0. Bioconcentration factor = 13.2 (eels). Environmental Toxicity:

This material is expected to be toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l.

### 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### 14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: TOLUENE

Hazard Class: 3 UN/NA: UN1294 Packing Group: II

Information reported for product/size: 390LB

International (Water, I.M.O.)

Proper Shipping Name: TOLUENE

Hazard Class: 3 UN/NA: UN1294 Packing Group: II

Information reported for product/size: 390LB

## 15. Regulatory Information

Ingredient	TSCA	EC	Japan	Australia
Toluene (108-88-3)			Yes	
\Chemical Inventory Status - Part 2\			 .nada	
Ingredient		DSL	NDSL	Phil.
Toluene (108-88-3)			No	
	A 302- TPQ	Lis	SAR	A 313 mical Catg.
Toluene (108-88-3) No	No	Yes	l	No
Toluene (108-88-3) No	ions - LA	Part 2 -RCRA- 261.33		 SCA- (d)

Chemical Weapons Convention: No TSCA 12(b): No SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: No (Pure / Liquid)

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM

Australian Hazchem Code: 3[Y]E

Poison Schedule: S6

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR

### 16. Other Information

NFPA Ratings: Health: 2 Flammability: 3 Reactivity: 0

Label Hazard Warning:

POISON! DANGER! HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. VAPOR HARMFUL. FLAMMABLE LIOUID AND VAPOR, MAY AFFECT LIVER, KIDNEYS, BLOOD SYSTEM, OR CENTRAL NERVOUS SYSTEM. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

**Label Precautions:** 

Keep away from heat, sparks and flame.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Avoid breathing vapor.

Avoid contact with eyes, skin and clothing.

Label First Aid:

Aspiration hazard. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head below hips to prevent aspiration into lungs. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases call a physician immediately.

Product Use:

Laboratory Reagent.

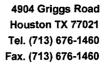
Revision Information:

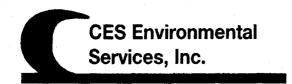
MSDS Section(s) changed since last revision of document include: 8.

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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**Prepared by:** Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)





## **Material / Product Approval Letter**

Date 6/11/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** 2458

Expiration Date 6/10/2010

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Transformer oil with PCB <50 ppm

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Consolidated from various customers

Odor: Oil like Color: Dark

pH: 4-8

**Physical State:** 

Incompatibilities: Oxidizers

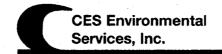
Safety Related Data/Special Handling:

Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Information				
Company :	CES Environmental S	ervices, Inc.			
Address :	4904 Griggs Rd 4904	Griggs Road			
City, State, Zip:	Houston TX 77021				
Contact:	Matt Bowman		Title :		
Phone No:	(713) 676-1460		Fax:		
24 / HR Phone:					
U.S EPA I.D No:	TXD008950461				
State I.D :	30900		SIC Code		
			•		
SECTION 2: Billing	Information	·	. *		
Company :	CES Environmental S	ervices, Inc.			
Address :	4904 Griggs Rd 4904	Griggs Road			
City, State, Zip:	Houston TX 77021				
Contact :			Title :		
Phone No :	(713) 676-1460		Fax :		
SECTION A. Comon	al Danasistina aftha 98a	andal / Dua days			
	al Description of the Ma				
	/ Product :Transform	·	•		
Detailed Descrip	tion of the Process G	enerating or Produc	ing the Material / Produc	et:	
Consolidated from	various customers				
Physical State :	<b>✓</b> Liquid	Sludge	Powder		
	Solid	Filter Cake	Combination		
Coloni		Dork	Odon	Oil	ika
Color:		Dark	Odor :	Oil	like
Specific Gravity	(Water=1) :	<1	Density :	7-8	lbs / gal
Does this material	contain any total phenol	ic compounds?	Yes V No		
Does this material	contain any para substit	uted phenolic compo	unds? Yes	<b>✓</b> No	
Layers :	✓ Single-Phas	Multi-Phas	ie		
Container Type :	<b>✓</b> Drum	Tote	Truck Months Other (exp	olain)	
Container Size :	55				
Number Of Units					
	•				
Proper U.S. DOT			Non-RCRA/Non-DOT F	Regulated Material	
Proper U.S. DOT			Non-RCRA/Non-DOT F	Regulated Material	

Flash Point >200	pH 4-8	Reactive Sulfides na mg/l	Reactive Cyanides na mg/l	Solids 0 %
Oil and Grease	TOC	Zinc	Copper	Nickel
100%mg/l	namg/l	namg/l	namg/l	namg/l

SECTION 4: Physical and Chemical Data		
COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Transformer oil with PCBs < 50 ppm	100	%
SECTION 5: Safety Related Data		
If the handling of this material / product requires the use of special protective	ve equipment, please explain.	
Level D PPE		
SECTION 6: Attached Summarting Desumants		
SECTION 6: Attached Supporting Documents	4 - 5 4h 4 1 /	
List all documents, notes, data, and/or analysis attached to this form as par Analysis	t of the material / product profile.	
maysis		
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any):		
Oxidizers		
OFOTION 0. Material Deciderate Octobras		
SECTION 8: Material Producer's Certification  The information contained herein is based on   generator knowledge and	Var analytical data. I haraby sari	be that the
above and attached description is complete and accurate to the best of my l		
deliberate or willful omissions of composition properties exist and that all k	nown or suspected hazards have bee	
disclosed. I certify that the materials tested are representative of all materia	ils described by this document.	
Authorized Signature :	D. ( 0/40/0000	
Addionized Digitator .	Date: 6/10/2008	
Printed Name / Title : n/a /	<u>.                                    </u>	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Brassa Facility Information	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu	Process Facility Information :	
Compliance Officer: Prabhakar Thangudu		
Date: 6/10/2008 Status: (Approved) Rejected	¥*	
Approval Number : 2458		

M/V Xanandu 2459 2459



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Steve Sams

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2459

Generator: M/V Xanandu

Address: 16530 De Zavala - Cemex Terminal

Channelview, TX

## Waste Information

Name of Waste: Cement residue and rinsewater

TCEQ Waste Code #: CESQ1191

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Rinsing of the cement cargo tank on board the M/V Xanandu

Color: brown/grey

Odor: mild

**pH:** 6-8

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

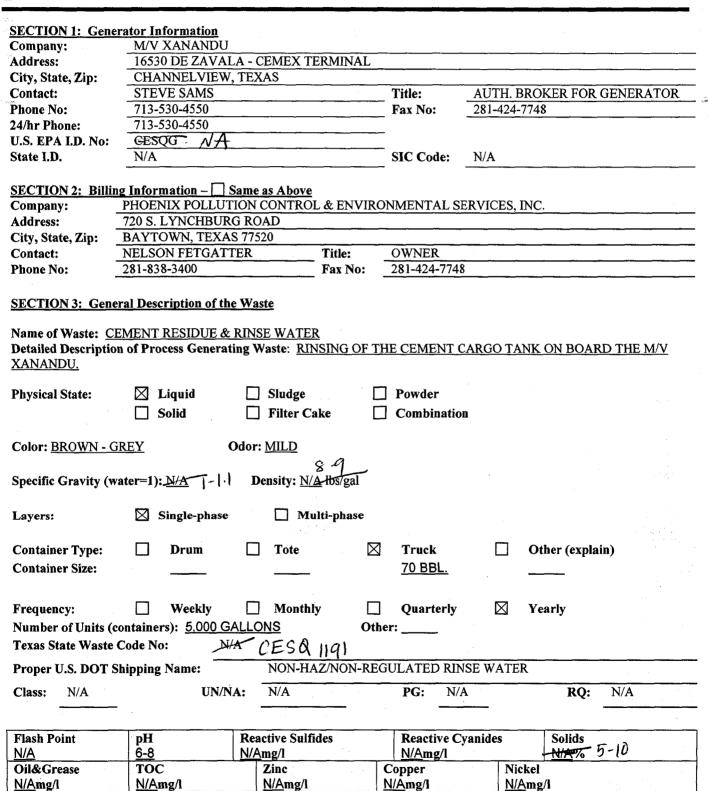
Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900



### **ECTION 4: Physical and Chemical Data**

	EOMPON	IENTS TABLE of the following mate		Concentration	Units or %
WATER	The waste consists t	of the following mate	rials	Ranges are acceptable	%
CEMENT R	ESIDUE		<u> </u>	5-10	%
	±.				
				1	1

<b>SECTION</b>	5:	Safety	Related	Data
ON CARCIT	~.	Datety	1141444	

If the handling	of this waste	requires the	use of special p	rotective equipment,	please explain.
PPE STO	. <u>(. <del>2.</del> .</u>	7	•	protective equipment,	

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. N/A

## **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): N/A

### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	N/A
TCLP Volatiles:	N/A
TCLP Semi-Volatiles:	N/A
Reactivity:	N/A
Corrosivity:	N/A
Ignitability:	N/A

## **SECTION 9: Generator's Certification**

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:

Date: 10/08/07

Printed Name/Title: Sams / AUTH. BROKER FOR GENERATOR

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	1/
Compliance Officer: Rauduffergian	Additional Information:
Date: 10-8-07 Approved Rejected	\$0.10/gal TOCUpto
Approval Number: 2459	(500 5000, 1%, solis

SE	CTION 10: Waste Receipt Classification Under 40 CFR 457		1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (1.00 (		Aller A
Is 1	this material a wastewater or wastewater sludge?   YES   NO		The state of the s		Control of the contro
	Yes', complete this section.				erio <u>dilib</u> ogram
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATI	EGORY, G	O TO THE !	VEXT I	PAGE.
<u>Meta</u>	ils Subcategory: Subpart A			<b>≜</b> . 	==::
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or pl Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment	nosphating	operations		•
Oils	Subcategory: Subpart B				
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes				
<u>Orga</u>	unics Subcategory: Subpart C				
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation				
	Wastewater from organic chemical product operations  Tank clean-out from organic, non-petroleum sources		* · · ·		

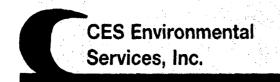
		,	 	in the metals subcate	·6~-1·	T.	
Cadn	nium: 0.2 mg/L						•
Chron	mium: 8.9 mg/L		in the second				 
Copp	er: 4.9 mg/L						
Nicke	el: 37.5 mg/L						

## **SECTION 11: Additional Instructions**

Organics Subcategory

 $\boxtimes$ 

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Ed Laszcz

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2380

Generator: Enterprise Products Operating, L.P. [Splitter III)

Address: 316 S. Main

Mont Belvieu, TX 77580

### Waste Information

Name of Waste: Recyclable hydrocarbon and water mixture

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Diesel and water mixed together with traces of dirt from operations

Color: clear to brown

**Odor:** hydrocarbon

pH: neutral

**Physical State:** 

Incompatibilities: None known

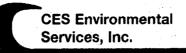
Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: General	ator Information	<u> </u>										
Company :	Enterprise Pro	ducts Oper	ating, L.f	<sup>o</sup> . [Splitte	er III)		·					
Address :	316 S. Main F	O Box 573	(Attn: Ra	acheal W	/heaton)				i ja			
City, State, Zip:	Mont Belvieu	TX 77580									·-	
Contact :	Ed Laszcz					Tit	tle :					
Phone No :	(281) 385-431	0				Fa	ıx:	(281) 385	5-4532		·	· · ·
24 / HR Phone :											:	
U.S EPA I.D No:	TXD98798156	80										
State I.D :	39257					SI	C Code	na	· · · · · · · · · · · · · · · · · · ·			
SECTION 2: Billing	Information											
Company :	Enterprise Pro	ducts Opera	ating, L.F	P. [Splitte	er III)							
Address:	316 S. Main F	PO Box 573	(Attn: Ra	acheal W	/heaton)							
City, State, Zip:	Mont Belvieu	TX 77580			1 4-							
Contact :	Ed Laszcz					Tit	tle :	7.14.				:
Phone No :	(281) 385-431	0 -		-	v	Fa	ıx:	(281) 385	5-4532			
								4 2 5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
SECTION 3: Genera												
Name of Waste:	Recyclable hy	drocarbon a	ind water	r mixture		<del></del>						
<b>Detailed Descript</b>	ion of the Pro	cess Gener	rating W	aste:								
Diesel and water r	nixed together	with traces	of dirt fro	m opera	tions							
Physical State :	Liquid		⊡ Slı	ıdge	ſ	■ Powde	er.					
Thysical Clate.					L							
	Solid		Fill	ter Cake	l	Combi	ination					
Color:	_	clea	ar to bro	wn	Odo	r:			hy	drocarbo	n	
Specific Gravity (	Water=1):		.99-1.01		Dens	sity:			8-8.	5	lbs	/ gal
Layers :	Single	-Phas	<b>☑</b> Mu	ılti-Phas	е							
Container Type :	<b>✓</b> Drum		Tote	<b>8</b>	Truck	⊚ Ot	ther (exp	plain)				
Container Size :	-						w					
Number Of Units	: 40											
Texas State Wast	e Code No :		Recycle									
Proper U.S. State	Waste Code !	No :			Flamm	able Liqu	uids, n.o.	.s., UN 19	93, PG II	<u> </u>		
Class: 3	- <del></del>	UN/NA:_	1943			PG:	3			R	ຊ :	3- NA
Flash Poin	t	рН		Read	tive Sulf	ides	Read	tive Cyar	ides		Solids	
>140		neutral			0	mg/l	3	0	mg/l	_ <del>_</del> _	<1	%
Oil and Grea	se mg/l	TOC >1500	mg/l		Zinc 0	ma/l	705 754 775	Copper 0	≡ma/l		Nickel 0	mg/l

### **SECTION 4: Physical and Chemical Data**

The state of the s	COMPONENTS TABLE product consists of the fo	The state of the s	Concentration Ranges are acceptable	Units or %
	Diesel	and the second	2-8	%
	Water	in the state of th	92-100	%
	Sand, silt		<1	%

	Diese	1			2-8	%
	Water	<b>f</b> :			92-100	%
	Sand, s	silt			<1	%
CTION 5: Safety Related	d Data					
the handling of this wandard PPE	vaste requires the t	ise of special pi	rotective equipment	, piease explain	•	
allualu FFE						
		*				
	· · ·					
CTION 6: Attached Sup					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
st all documents, not	es, data, and/or ana	alysis attached	to this form as part	of the waste ap	proval package.	
ne			e de la companya de La companya de la co			
					Albania de la Caración de la Caració	
					en gera de la casa estada. Casa estada	
CTION 7: Incompatibilit	ies					
ease list all incompat	ibilities (if any):				Lest the second second	
ne known						
and the state of t			n de la companya de l			
CTION 8: Generator's K	nowiedge Documenta	ation				
boratory analysis of t lowing generators kn LP Metals :		te characteristic	s, listed below, WA	S NOT PERFOR	RIMED based upon	me
LP Volatilies :	X					
LP Semi-Volatiles :	_					
	X					
activity :	X					
	<u>x</u>					
rrosivity :						
	<u>x</u>					
nitability : CTION 9: Generator's Co	ertification			_		
orrosivity:  nitability:  CTION 9: Generator's Come information contain ove and attached des liberate or willful omisclosed. I certify that	ertification ned herein is based scription is comple ssions of composi	te and accurate tion properties	to the best of my k exist and that all kn	nowledge and a lown or suspect	bility to determine ted hazards have I	that no
itability: CTION 9: Generator's Co e information contain ove and attached des iberate or willful omi closed. I certify that	ertification ned herein is based scription is comple ssions of composi	te and accurate tion properties	to the best of my k exist and that all kn	nowledge and a lown or suspect s described by t	bility to determine ted hazards have I	that no
nitability: CTION 9: Generator's Co e information contain ove and attached des iberate or willful omi closed. I certify that	ertification ned herein is based scription is comple ssions of composi	te and accurate tion properties	to the best of my k exist and that all kn	nowledge and a lown or suspect	bility to determine ted hazards have t this document.	that no
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nitability: CTION 9: Generator's Come information contains ove and attached dessiberate or willful omicolosed. I certify that athorized Signature: Inted Name / Title:	ertification ned herein is based scription is completed in the materials tested to the materials teste	te and accurate tion properties ed are represent	to the best of my k exist and that all kn	nowledge and a nown or suspect s described by the Date:  Special Pr	bility to determine ted hazards have this document.  9/27/2007  ricing / Analytical I	that no been
nitability: CTION 9: Generator's Compliance Officer:	ertification ned herein is based scription is completed in the materials tested to the materials teste	te and accurate tion properties ed are represent	to the best of my k exist and that all kn	nowledge and a lown or suspects described by the substitution of t	bility to determine ted hazards have this document.  9/27/2007  ricing / Analytical I	that no been
aitability: CTION 9: Generator's Generator's Generator's Generator's Generator's Generator's Generator's Generator's Generator of Generator's Generator of Generator	ertification ned herein is based scription is completed in the materials tested in the materials teste	te and accurate tion properties ed are represent	to the best of my k exist and that all kn tative of all material	nowledge and a lown or suspects described by the substitution of t	bility to determine ted hazards have this document.  9/27/2007  ricing / Analytical I	that no been
nitability: CTION 9: Generator's Co e information contain ove and attached des liberate or willful omis cclosed. I certify that	ertification ned herein is based scription is completed in the materials tested in the materials teste	space)  Approved	to the best of my k exist and that all kn tative of all material	nowledge and a lown or suspects described by the substitution of t	bility to determine ted hazards have the this document.  9/27/2007  ricing / Analytical I	that no been

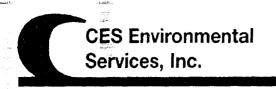
SECT	ION 10: Waste Receipt Classification Under 40 CFR 437		1.1.			
Is this	material a wastewater or wastewater sludge?	V	10			
If 'YE	S', complete this section					
PLEA	SE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATI	E CAT	EGOF	≀Y, GO	то	THE NE
	s Subcategory: Subpart A	•				
	Spent electroplating baths and/or sludges					
	Metal finishing rinse water and sludges					
	Chromate wastes					
	Air pollution control blow down water and sludges					
	Spent anodizing solutions					
$\overline{\Box}$	Incineration wastewaters					
	Waste liquid mercury					
	Cyanide-containing wastes greater than 136 mg/l					
	Waste acids and bases with or without metals					
	Cleaning, rinsing, and surface preparation solutions from elec-	tropla	ting or	phosp	ha	
	Vibratory deburring wastewater	•				
	Alkaline and acid solutions used to clean metal parts or equip	ment				
Oils S	ubcategory: Subpart B					
	Used oils					
	Oil-water emulsions or mixtures					
	Lubricants					11,
	Coolants					
	Contaminated groundwater clean-up from petroleum sources					
	Used petroleum products					
	Oil spill clean-up					
	Bilge water					
	Rinse/wash waters from petroleum sources					
	Interceptor wastes					
	Off-specification fuels					
	Underground storage remediation wastes					
	Tank clean-out from petroleum or oily sources					
	Non-contact used glycols					
	Aqueous and oil mixtures from parts cleaning operations					
	Wastewater from oil bearing paint washes					
Oraan	ics Subcategory Subpart C					
	Landfill leachate					
П	Contaminated groundwater clean-up from non-petroleum soul	rces				
$\bar{\Box}$	Solvent-bering wastes					
	Off-specification organic product					
	Still bottoms					
	Byproduct waste glycol					
	Wastewater from paint washes					
	Wastewater from adhesive and/or epoxies formulation					
	Wastewater from organic chemical product operations					
	Tank close out from arganic, non notroloum courses					Contact

	e contains oil and grease less the values listed below, the wa	•	•		ntrations in
Chromium Copper: Nickel:	0.2 mg/L 8.9 mg/L 4.9 mg/L 37.5 mg/L e contains oil and grease less bove any of the values listed a	<b>O</b> ,		•	omium, copper,
	Subcatego bcatego				

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Praxain (LaPate) 24160 2460



# Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Tim Compton

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2460

Generator: Praxair (La Porte)
Address: 100 Strang Rd

La Porte, TX 77571

### Waste Information

Name of Waste: Ethylene glycol TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Removal of non-contact ethylene glycol from chiller system

Color: clear to green

Odor: glycol

**pH:** 4-11

**Physical State:** 

Incompatibilities: none known

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	rator Information		
Company:	Praxair La Porte		
Address:	100 Strang Road		
City, State, Zip:	La Porte, TX 77571		
Contact:	Tim Compton	Title:	Plant Engineer
Phone No:	281-478-1978	Fax No:	
24/hr Phone:		-	
U.S. EPA I.D. No:	TXT490014933	•	
State I.D.	35919	SIC Code:	NA
		-	<del></del>
SECTION 2: Billing	Information - Same as Above		
Company:	Praxair La Porte		
Address:	100 Strang Road		
City, State, Zip:	La Porte TX 77571		<del></del>
Contact:	Tim Compton Title:	· · · · · · · · · · · · · · · · · · ·	
Phone No:	281-478-1978 Fax No:	<del></del>	
T HOME ING.	201-470-1770		
SECTION 3. C.	1 D		
SECTION 3: Gener	al Description of the Waste		
Name of Window Tab	alsas Chical		
Name of Waste: Eth			-land Carry shiller makes
Detailed Description	of Process Generating Waste: Removal of non-	contact ethylene	glycol from chiller system
Physical State:	□ Sludge □	Powder	A STATE OF THE STA
r dysical State:			
	Solid Filter Cake	] Combination	
Color: clear to green	Odor: gyld		
	<i>J I</i>		
Specific Gravity (wa	ter=1): 1 Density: 8.34 lbs/gal		
Layers:	Single-phase		
Containor Tunos	☐ Drum ☐ Tote 🔯	Truck	Other (emplein)
Container Type:	C Drain C 10te 🔯		Other (explain)
Container Size:		1000 gal	
Frequency:	☐ Weekly ☐ Monthly ☒	Quarterly	Yearly
` -		Quarterry	C reality
Number of Units (co	· · · · · · · · · · · · · · · · · · ·		
Texas State Waste C	ode No: Recyclable		
Proper U.S. DOT Sh	ipping Name: Non RCRA Non DOT	Regulated Mater	rial
Class: NA	UN/NA: NA	PG: NA	RQ: NA
Elesh Deine	The Marking S. 164	D	
Flash Point	pH Reactive Sulfides 4-11 BRI mg/l r A	Reactive Cya	
>200			JA 0-2%
Oil&Grease		Copper	Nickel
Qmg/I	NAme/I -BRLmg/I	BRLmen ha	BRLMe/I 1

SECTION 4: Physical and Chemical Data

The s	composite the following in	materials		Concentration Ranges are acceptable	Coits or %
Ethylene Glycol	***			15-50	1%
Water	: x(x)			50-85	%
			V		

#### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

None known

### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	<u>X</u>
Ignitability:	X

### SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:		Date:	•
Printed Name/Title: KIRANMAI	VALLURI	ENVIRONMENTAL	COMPLIANE SPECIALIS
CES USE ONLY (DO NOT WRITE IN THIS SPACE)			
Compliance Officer: Polle The	b	Process Facility Information:	
7 1	7	\$0,2019al oach	JYYYYY
Date: 10-9-07 Approve	Rejected	\$0,201gal \$200 \$691hr trans	
Approved Number: 2460	•	REC	
Approval Number: 2460	<u> </u>		

1 30 A		the state of the s			
~					
	Wasta	Dogoint (	Larritiondiam	TIMA - 40	F'ED 477
SECTION 10:	VVNSIE	Receipt t	#24 2 2 1 2 44 " 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	# : #### C.R. 4443	L.PR M.)
	***	*****	WARD DIVING AND DECKED	C #1 E C	

Is this	material a	wastewater	or wast	ewater sludge?	YES	⊠=N0
Transaction 1	2.351		10,000			ter.

If 'Yes', complete this section.

### NEXT PAGE.

PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIAT	E CATEGORY, GO TO THE
Meta	ls Subcategory: Suhpart A	
	Spent electroplating baths and/or sludges	
H	Metal finishing rinse water and sludges Chromate wastes	
Ħ	Air pollution control blow down water and sludges	
Ħ	Spent anodizing solutions	
Ħ	Incineration wastewaters	
Ħ	Waste liquid mercury	
$\Box$	Cyanide-containing wastes greater than 136 mg/l	
	Waste acids and bases with or without metals	
	Cleaning, rinsing, and surface preparation solutions from electroplat	ing or phosphating operations
	Vibratory deburring wastewater	
	Alkaline and acid solutions used to clean metal parts or equipment	
Oils .	Subcategory: Subpart B	
	Used oils	
Ħ	Oil-water emulsions or mixtures	
Ħ	Lubricants	
Ħ	Coolants	
门	Contaminated groundwater clean-up from petroleum sources	
	Used petroleum products	
	Oil spill clean-up	
	Bilge water	**
	Rinse/wash waters from petroleum sources	
	Interceptor wastes	
$\Box$	Off-specification fuels	
Ц	Underground storage remediation waste	
$\vdash$	Tank clean-out from petroleum or oily sources	
H	Non-contact used glycols	
님	Aqueous and oil mixtures from parts cleaning operations	
ш	Wastewater from oil bearing paint washes	
0.0	nics Subcategory: Subpart C	
UIX	mus Subculegory. Support	
П	Landfill leachate	
Ħ	Contaminated groundwater clean-up from non-petroleum sources	
Ħ	Solvent-bearing wastes	
ñ	Off-specification organic product	
	Still bottoms	
	Byproduct waste glycol	
	Wastewater from paint washes	
	Wastewater from adhesives and/or epoxies formulation	
	Wastewater from organic chemical product operations	
	Tank clean-out from organic, non-petroleum sources	

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

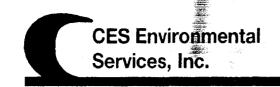
	Metals	Subcategory
--	--------	-------------

Oils Subcategory

Organics Subcategory

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Jonny Salinas

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2461

**Generator:** Kinder Morgan **Address:** 906 Clinton Dr

Galena Park, TX 77547

Waste Information

Name of Waste: Tank bottoms
TCEO Waste Code #: 00192191

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Removal of tank bottoms

Color: dark

Odor: hydrocarbon

**pH:** 3-10

**Physical State:** 

Incompatibilities: none known

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: General	ator Information						
Company:	Kinder Morgan		_				
Address:	906 Clinton Drive						
City, State, Zip:	Galena Park, TX 77547						
Contact:	Lance Wiley		Title: Se	nior Environmental Coordinator			
Phone No:	713-920-8436			3-472 <b>-7</b> 660			
24/hr Phone:	713-724-4912		<del>-</del>				
U.S. EPA I.D. No:	TXD026481523						
State I.D.	30573		SIC Code:	νA			
SECTION 2: Billing Company: Address: City, State, Zip:	Information – 🛛 San	ne as Above					
Contact:		Title:					
Phone No:		Fax No:					
SECTION 3. Canar	al Description of the W	laste					
SECTION 3. Genera	ar Description of the v	2010					
Name of Waste: Tan Detailed Description		Waste: Removal of tank b	oottoms				
Physical State:	☐ Liquid [	⊠ Sludge □	Powder				
i nysicai State.							
	Solid [	Filter Cake	Combination				
Color: Dark	Odo	r: <u>Hydrocarbon</u>					
Specific Gravity (wat	er=1): <u>1.2</u>	Density: 10 lbs/gal					
Layers:	Single-phase	Multi-phase					
Container Type:	⊠ Drum [	☐ Tote ☐	Truck	Other (explain)			
Container Size:	<u>55</u>		· · · · · · ·	Other (explain)			
Container Size.	22			:			
Frequency:	Weekly	Monthly	Quarterly	Yearly			
Number of Units (con	tainers); 5-10	Other:					
Texas State Waste Co	·	191					
Proper U.S. DOT Shi	pping Name:	Non-RCRA/Non DOT r	egulated waste soli	ds			
Class: 11A	UN/NA;	NA	PG: NA	<b>RQ</b> : <u>N4</u>			
701 1 70 /							
Flash Point		eactive Sulfides	Reactive Cyanid				
>150		0mg/l	<20mg/l	95%			
Oil&Grease	TOC NAma/l		opper Ama/l	Nickel NAma/I			

### SECTION 4: Physical and Chemical Data

	The wast	e consists	of the following materials	owing materials Ranges are acceptable		
Rust	**************************************		Man. A. A. A	85-90 =	%	
Dirt/Sand				10-15	%	
Oil				1-2	%	
Diesel		, , , , , , , , , , , , , , , , , , ,		1-2	%	
					1	

### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analytical #290554 (Xenco Labs)

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

None known

### SECTION 8: Generator's Knowledge Documentation

Printed Name/Title: Lance Wiley, Senior Environmental Coordinator

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	Á
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	¥
Ignitability:	3

Authorized Signature:

### SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\boxtimes$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Date: 10/5/07

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	·
Compliance Officer: Robbe 18 Lay	Process Facility Information:  Check with most for pricing info.
Date: 10-10-07 Approved Rejected	Check with May for pricing into.
Approval Number: 2461	OS

SE	CCTION 10: Waste Receipt Classification Ender 40 CFR 437
· #*:	this material a wastewater or wastewater sludge?   YES   NO
If	'Yes', complete this section.
PI	EASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
	uls Subcategory: Subpart A
<u>wen</u>	•
님	Spent electroplating baths and/or sludges
H	Metal finishing rinse water and sludges
	Chromate wastes
H	Air pollution control blow down water and sludges  Spent anodizing solutions
H	Incineration wastewaters
Ħ	Waste liquid mercury
Ħ	Cyanide-containing wastes greater than 136 mg/l
Ħ	Waste acids and bases with or without metals
	Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
	Vibratory deburring wastewater
	Alkaline and acid solutions used to clean metal parts or equipment
<u> Oils</u>	Subcategory: Subpart B
_	Used oils
H	Oil-water emulsions or mixtures
片	Lubricants
	Coolants
Ħ	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
	Bilge water
	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation waste
닏	Tank clean-out from petroleum or oily sources
片	Non-contact used glycols
님	Aqueous and oil mixtures from parts cleaning operations
L	Wastewater from oil bearing paint washes
Orga	nics Subcategory: Subpart C
	Landfill leachate
Ħ	Contaminated groundwater clean-up from non-petroleum sources
Ħ	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesives and/or epoxics formulation
	Wastewater from organic chemical product operations
Ш	Tank clean-out from organic, non-petroleum sources

(T) (2)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excervalues listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L l: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, of above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

### SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

# **Analytical Report 290554**

for

## Kinder Morgan

**Project Manager: Lance Wiley** 

Used Oil & Oil & Rust

#1, #2

04-OCT-07





11381 Meadowglen, Suite L Houston, TX 77082 Ph:(281) 589-0692 Fax:(281) 589-0695

Texas certification numbers: Houston, TX T104704215

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta



04-OCT-07-

Project Manager: Lance Wiley Kinder Morgan 405 Clinton Drive Galena Park, TX 77547

Reference: XENCO Report No: 290554

Used Oil & Oil & Rust

Project Address: Galena Park/Pasadena

### Lance-Wiley:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 290554. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 290554 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Carlos A. Castro, Ph.D., MBA

Managing Director, Texas

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# Certificate of Analysis Summary 290554 Kinder Morgan, Galena Park, TX



Project Name: Used Oil & Oil & Rust

Date Received in Lab: Oct-01-07 03:56 pm

Report Date:

04-OCT-07

Contact: Lance Wiley Project Location: Galena Park/Pasadena

Project Id: #1, #2

Project Manager: Paulalyn Kirtley

Troject Docation. Carena rank rasac	Cita		k roject 1/2	anager. I adialy in indicy
	Lab Id:	290554-001	290554-002	
Analysis Requested	Field Id:	#1 Used Oil	#2 Oil / Rust	i <del>d</del>
	Depth:			
-	Matrix:	OIL	SOIL	·
	Sampled:	Oct-01-07 09:00	Oct-01-07 10:00	
Flash Point (CC) SW-846 1010	Extracted:			
1 mon 1 onit (e.e.) 5 77-040 1010	Analyzed:	Oct-01-07 17:00	Oct-04-07 12:00	
a).	Units/RL:	Deg F RL	Deg F RL	: <u></u>
Flash Point		> 150 50.0	> 150 50.0	:

The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990

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Carlos A. Castro, Ph.D., MBA

Managing Director, Texas



# Certificate of Analysis Summary 290554 Kinder Morgan, Galena Park, TX



Project Name: Used Oil & Oil & Rust

Project Id: #1, #2

Contact: Lance Wiley

Project Location: Galena Park/Pasadena

Date Received in Lab: Oct-01-07 03:56 pm

Report Date: 04-OCT-07

Project Manager: Paulalyn Kirtley

	Lab Id:	290554-001	290554-002	
Analysis Requested	Field Id:	#1 Used Oil	#2 Oil / Rust	
	Depth:			
	Matrix:	OIL	SOIL	
	Sampled:	Oct-01-07 09:00	Oct-01-07 10:00	:
TCLP BTEX by SW 8260B	Extracted:		Oct-02-07 10:36	
TODE DEPLOY SAV 6200D	Analyzed:		Oct-02-07 15:35	
	Units/RL:	₫.	mg/L RL	
Benzene		_	BRL 0.0010	
TOX by EPA 9020B	Extracted:	'		
10110121112020	Analyzed:	Oct-03-07 10:27		}
	Units/RL:	mg/kg RL		
Total Organic Halides		70.3 10.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Carlos A. Castro, Ph.D., MBA

Managing Director, Texas



Project Id: #1, #2

Contact: Lance Wiley

Project Location: Galena Park/Pasadena

### Certificate of Analysis Summary 290554 Kinder Morgan, Galena Park, TX

Project Name: Used Oil & Oil & Rust

o On & Rust

Date Received in Lab: Oct-01-07 03:56 pm

Report Date:

04-OCT-07

Project Manager:

Paulalyn Kirtley

Analysis Requested		Lab Id:	290554-0	01	290554-0	02			· · · · · · · · · · · · · · · · · · ·
Depth: Matrix:   OII	Analysis Roquested	}		- 1				]	
Matrix:   Sampled:   Oct-01-07 19:00   Oct-01-07 10:00	2 Mai y Sis Requesica		#1 000 <b>0</b> 0		#2 OH / R	usi			
Reactive Cyanide by EPA 9010B		- 1	OII	i	con.		• •		
Reactive Cyanide by EPA 9010B				10-00		0.00			
Analyzed:		<del></del>	OCC-01-07 0	79.00	001-01-07 1	0.00			
Cyanide	Reactive Cyanide by EPA 9010B				Oat 02 07 1	6.50			
Cyanide	39			ļ				1	
Reactive Sulfide by EPA 9030B		Units/KL:			<del></del> _				
Reactive Sulfide	Cyanide	T == .			BRL	0.200			
Chits/RL:   mg/kg   RL	Reactive Sulfide by EPA 9030B	1							•
Reactive Sulfide						_		1	
Soil pH by EPA 9045C		Units/RL:				RL			
Soli ph by EPA 9045C	Reactive Sulfide				BRL	50.0			<del></del>
Analyzed:   Units/RL:   SU   RL	Soil pH by EPA 9045C	1 1						1	
DH   S.32   Total Metals by SW6020A   Extracted:   Oct-02-07 09:33   Oct-02-07 09:33   Oct-03-07 13:15   Oct-03-07 13:	* J	Analyzed:			Oct-03-07 1	3:36			
Total Metals by SW6020A		Units/RL:			SU	RL			
Analyzed:   Oct-03-07   13:11   Oct-03-07   13:15   mg/kg   RL   mg/kg   RL	pH				5.32				
Analyzed:   Oct-03-07 13:11   Oct-03-07 13:15   mg/kg   RL   mg/kg   RL	Total Metals by SW6020A	Extracted:	Oct-02-07 (	9:33	Oct-02-07 0	9:33			
Antimony  BRL 0.566 0.857 0.504  Arsenic  BRL 0.189 2.50 0.168  Barium  0.566 0.472 1.21 0.420  Beryllium  BRL 0.094 BRL 0.084  Cadmium  BRL 0.094 BRL 0.084  Chromium 0	1 0000 11200000 0 0 0 0 0 0 0 0 0 0 0 0	Analyzed:	Oct-03-07 1	3:11	Oct-03-07 1	3:15		}	
Arsenic       BRL       0.189       2.50       0.168         Barium       0.566       0.472       1.21       0.420         Beryllium       BRL       0.094       BRL       0.084         Cadmium       BRL       0.094       BRL       0.084         Chromium       0.547       0.283       28.6       0.252         Lead       Cμ       16.9       0.189       1.58       0.168         Mercury       BRL       0.0377       BRL       0.0336         Nickel       1.57       0.472       53.8       0.420		Units/RL:	mg/kg	RL	mg/kg	RL			
Barium       0.566       0.472       1.21       0.420         Beryllium       BRL       0.094       BRL       0.084         Cadmium       BRL       0.094       BRL       0.084         Chromium       0 0.547       0.283       28.6       0.252         Lead       0 0.00       1.58       0.168         Mercury       BRL       0.0377       BRL       0.0336         Nickel       1.57       0.472       53.8       0.420	Antimony		BRL	0.566	0.857	0.504			
Beryllium	Arsenic		BRL	0.189	2,50	0.168			
Cadmium         BRL         0.094         BRL         0.084           Chromium         0 0.547         0.283         28.6         0.252           Lead         0 μ         16.9         0.189         1.58         0.168           Mercury         BRL         0.0377         BRL         0.0336           Nickel         1.57         0.472         53.8         0.420	Barium		0.566	0.472	1,21	0.420			
Chromium   OK   0.547   0.283   28.6   0.252	Beryllium		BRL	0.094	BRL	0.084			
Lead     C L       16.9     0.189       1.58     0.168       Mercury     BRL     0.0377       BRL     0.0336       Nickel     1.57     0.472       53.8     0.420	Cadmium		BRL	0.094	BRL	0.084			
Lead     C \( \beta \)     16.9     0.189     1.58     0.168       Mercury     BRL     0.0377     BRL     0.0336       Nickel     1.57     0.472     53.8     0.420	Chromium OK		0.547	0.283	28.6	0.252			
Mercury         BRL 0.0377         BRL 0.0336           Nickel         1.57 0.472         53.8 0.420			16.9	0.189	1.58	0.168			
			BRL	0.0377	BRL	0.0336			
Selenium BRL 0.283 BRL 0.252	Nickel		1.57	0.472	53.8	0.420			
	Selenium		BRL	0.283	BRL	0.252			
Silver BRL 0.189 BRL 0.168									

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Carlos A. Castro, Ph.D., MBA

Managing Director, Texas



## **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- \* Outside XENCO'S scope of NELAC Accreditation

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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, Suite 104, San Antonio, TX 78238	(210) 509-3334	(201) 509-3335
2505 N. Falkenburg Rd., Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555



## Form 2 - Surrogate Recoveries

Project Name: Used Oil & Oil & Rust



**Work Order #: 290554** 

Lab Batch #: 705544

Sample: 290554-002 / SMP

Batch:

h: 1 Matrix: Soil

**Project ID: #1, #2** 

Units: mg/L	SURROGATE RECOVERY STUDY									
TCLP BTEX by SW 8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
4-Bromofluorobenzene	0.0525	0.0500	105	86-115						
Dibromofluoromethane	0.0533	0.0500	107	86-118						
1,2-Dichloroethane-D4	0.0531	0.0500	106	80-120						
Toluene-D8	0.0492	0.0500	98	88-110						

Lab Batch #: 705544

Sample: 290554-002 D / MD

Batch: 1

Matrix: Soil

Units: mg/L	SURROGATE RECOVERY STUDY									
TCLP BTEX by SW 8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
4-Bromofluorobenzene	0.0529	0.0500	106	86-115						
Dibromofluoromethane	0.0520	0.0500	104	86-118						
1,2-Dichloroethane-D4	0.0516	0.0500	103	80-120						
Toluene-D8	0.0482	0.0500	96	88-110						

Lab Batch #: 705544

Sample: 290554-002 S / MS

Batch:

Matrix: Soil

Units: mg/L	SU	SURROGATE RECOVERY STUDY									
TCLP BTEX by SW 8260B  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
4-Bromofluorobenzene	0.0493	0.0500	99	86-115							
Dibromofluoromethane	0.0579	0.0500	116	86-118							
1,2-Dichloroethane-D4	0.0492	0.0500	98	80-120							
Toluene-D8	0.0494	0.0500	99	88-110							

Lab Batch #: 705544

Sample: 290554-002 SD / MSD

Batch:

Matrix: Soil

Units: mg/L	SURROGATE RECOVERY STUDY									
TCLP BTEX by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
Analytes			[D]	ĺ						
4-Bromofluorobenzene	0.0490	0.0500	98	86-115						
Dibromofluoromethane	0.0553	0.0500	111	86-118						
1,2-Dichloroethane-D4	0.0488	0.0500	98	80-120						
Toluene-D8	0.0456	0.0500	91	88-110						

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.

<sup>\*\*\*</sup> Poor recoveries due to dilution



# Form 2 - Surrogate Recoveries

Project Name: Used Oil & Oil & Rust



Work Order #: 290554

Lab Batch #: 705544

Project ID: #1, #2

Sample: 500001-1-BKS / BKS

Batch: Matrix: Water

Units: mg/L	SURROGATE RECOVERY STUDY									
TCLP BTEX by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
Analytes		·	[10]							
4-Bromofluorobenzene	0.0512	0.0500	102	86-115						
Dibromofluoromethane	0.0520	0.0500	104	86-118						
1,2-Dichloroethane-D4	0.0463	0.0500	. 93	80-120						
Toluene-D8	0.0490	0.0500	98	88-110						

Lab Batch #: 705544

Sample: 500001-1-BLK / BLK

Batch: 1

Matrix: Water

Units: mg/L	SURROGATE RECOVERY STUDY									
TCLP BTEX by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
Analytes			{D]							
4-Bromofluorobenzene	0.0520	0.0500	104	86-115						
Dibromofluoromethane	0.0563	0.0500	113	86-118						
1,2-Dichloroethane-D4	0.0541	0.0500	108	80-120						
Toluene-D8	0.0488	0.0500	98	88-110						

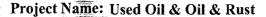
Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.

<sup>\*\*</sup> Surrogates outside limits; data and surrogates confirmed by reanalysis

<sup>\*\*\*</sup> Poor recoveries due to dilution



## Blank Spike Recovery





Work Order #: 290554

Project ID:

Lab Batch #: 705526

Sample: 705526-1-BKS

Matrix: Solid

Date Analyzed: 10/02/2007

**Date Prepared:** 10/02/2007

Analyst: MAB

Reporting Units: mg/kg

1 BLANK/BLANK SPIKE RECOVERY STUDY Batch #:

Reactive Cyanide by EPA 9010B	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags			
Analytes	[A]	[B]	Result [C]	%R [D]	%R				
Cyanide	<0.200	0.400	0.370	93	80-120				

Lab Batch #: 705544

Sample: 500001-1-BKS

Matrix: Water

Date Analyzed: 10/02/2007

**Date Prepared: 10/02/2007** 

Analyst: BEC

Reporting Units: mg/L

1 BLANK/BLANK SPIKE RECOVERY STUDY Ratch #:

and a man man	Duten III.	DEMINITION THE RECOVERY STORY							
TCLP BTEX by SW 8260B	Blank Result	Spike Added	Blank Spike	Blank Spike	Control Limits	Flags			
Analytes	[A]	[B]	Result [C]	%R [D]	%R				
Benzene	<0.0010	0.1000	0.1012	101	66-142				

Lab Batch #: 705498

Sample: 499951-1-BKS

Matrix: Solid

Date Analyzed: 10/02/2007

Date Prepared: 10/02/2007

Analyst: MCH

Reporting Units: mg/kg	Batch #:	BLANK /BLANK SPIKE RECOVERY STUDY							
Total Metals by SW6020A  Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags			
Antimony	<0.600	2.00	2.09	105	70-125				
Arsenic	<0.200	5.00	4.83	97	70-125				
Barium	<0.500	5.00	4.90	98	70-125				
Beryllium	<0.100	2.00	1.95	98	70-125				
Cadmium	<0.100	2.00	2.06	103	70-125	i			
Chromium	<0.300	5.00	4.93	99	70-125				
Lead	<0.200	5.00	4.79	96	70-125				
Mercury	<0.0400	0.1000	0.0800	80	70-125				
Nickel	<0.500	5.00	4.86	97	70-125				
Selenium	<0.300	5.00	4.85	97	70-125				
Silver	< 0.200	2.00	1.69	85	70-125				

Blank Spike Recovery [D] = 100\*[C]/[B] All results are based on MDL and validated for QC purposes.



### **BS/BSD Recoveries**



Lati bilitaria .... i.

Project Name: Used Oil & Oil & Rust

Work Order #: 290554

Analyst: MAB

Date Prepared: 10/02/2007

**Project ID:** #1, #2

Date Analyzed: 10/02/2007

Lab Batch ID: 705527

Sample: 705527-1-BKS

Batch #: 1

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<50.0	7910	6960	88	7910	7360	93	6	60-120	20	<del> </del>
	Sample Result [A]	Blank Spike Sample Result Added [A] [B]	Blank Sample Result [A]  [B]  Blank Spike Spike Result [B]  [C]	Blank Sample Result [A]  [B]  [B]  Blank Spike Spike Spike Result [C]  [D]	Blank Spike Blank Spike Spike Added Spike Result [A] [B] [C] [D] [E]	Blank Spike Blank Spike Spike Added Spike Spike Added Spike Result %R Duplicate [B] [C] [D] [E] Result [F]	Blank Spike Spike Spike Added Spike Spike Added Spike Dup.  [A] [B] [C] [D] [E] Result [F] [G]	Blank Spike Spike Spike Spike Added Spike Dup. RPD Result [B] [C] [D] [E] Result [F] [G]	Blank Spike Spike Spike Added Spike Dup. RPD Limits [B] [C] [D] [E] Result [F] [G]	Sample Result   Added   Spike   Spike   Added   Spike   Dup.   RPD   Limits   Limits   Result   Result

Analyst: AMB

**Date Prepared:** 10/03/2007

Date Analyzed: 10/03/2007

Lab Batch ID: 705560

Sample: 705560-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
TOX by EPA 9020B	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Bik. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		(B)	[C]	[D]	[E]	Result [F]	[G]			1	Ì
Total Organic Halides	<10.0	100	101	101	100	94.6	95	7	70-130	30	

Relative Percent Difference RPD = 200\*|(D-F)/(D+F)|
Blank Spike Recovery [D] = 100\*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100\*(F)/[E]
All results are based on MDL and Validated for QC Purposes





Work Order #: 290554

Lab Batch ID: 705544

Date Analyzed: 10/02/2007

## Form 3 - MS / MSD Recoveries

Project Name: Used Oil & Oil & Rust



**Project ID: #1, #2** Matrix: Soil

Batch #:

BEC

Analyst:

Reporting Units: mg/L	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										]	
TCLP BTEX by SW 8260B	Parent Sample Result	Spike	Spiked Sample Result	Sample	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag	4.4
Analytes	[A]	Added [B]	[C]	%R [D]	[E]	Result [F]	[G]	76	7010	70KI D	, #	
Benzene	<0.0010	0.1000	0.0987	99	0.1000	0.1002	100	1	66-142	20	1 10	

OC-Sample ID: 290554-002 S

Date Prepared: 10/02/2007

Lab Batch ID: 705498 **QC-Sample ID: 290505-002 S** Date Analyzed: 10/02/2007

Matrix: Soil Batch #:

Date Prepared: 10/02/2007 Analyst: MCH

Reporting Units: mg/kg	mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVE				RECOVERY STUDY						
Total Metals by SW6020A  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Antimony	0.594	1.83	1.02	23	1.94	1.06	24	4	70-125	30	Х
Arsenic	1.31	4.59	4.42	68	4.85	4.82	72	6	70-125	30	Х
Barium	39.8	4.59	35.3	0	4.85	30.5	0	NC	70-125	30	X
Beryllium	0.119	1.83	1.18	58	1.94	1.34	63	8	70-125	30	Х
Cadmium	0.168	1.83	1.42	68	1.94	1.53	70	3	70-125	30	х
Chromium	5.15	4.59	8.92	82	4.85	10.0	100	20	70-125	30	1.40
Lead	3.07	4.59	6.72	80	4.85	7.28	87	8	70-125	30	{
Mercury	<0.0396	0.0917	0.0459	50	0.0971	0.0583	60	18	70-125	30	X
Nickel	5.31	4.59	9.77	97	4.85	10.2	101	4	70-125	30	
Selenium	<0.297	4.59	2.53	55	4.85	2.95	61	10	70-125	30	X
Silver	<0.198	1.83	1.07	58	1.94	1.19	61	5	70-125	30	х

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*(D-G)/(D+G) Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit





## Sample Duplicate Recovery

Project Name: Used Oil & Oil & Rust

Work Order #: 290554

Lab Batch #: 705437

QC-Sample ID: 290167-006 D

Date Analyzed: 10/01/2007 Date Prepared:

10/01/2007 Batch #:

Project ID: #1, #2

Analyst: JAH

Matrix: Soil

Reporting Units: Deg r	SAMPLE / SAMPLE DUPLICATE RECOVERY					
Flash Point (CC) SW-846 1010	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag	
Analyte		[B]			ļ	
Flash Point	<50.0	<50.0	NC	25		

Lab Batch #: 705696

**Date Analyzed: 10/04/2007** 

Date Prepared: 10/04/2007 Analyst: JAH

QC- Sample ID: 290554-002 D

Analyte

Batch #:

Matrix: Soil

Reporting Units: Deg F Flash Point (CC) SW-846 1010

Flash Point

yanide

SAMPLE SAMPLE DUPLICATE RECOVERY					
Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag	
 > 150	> 150	0	25		

Lab Batch #: 705526

Date Analyzed: 10/02/2007

**Date Prepared:** 10/02/2007

Analyst: MAB

**QC- Sample ID: 290554-002 D** 

Batch #:

Matrix: Soil

Reporting Units: mg/kg

ting Units: mg/kg	SAMPLE / SAMPLE DUPLICATE RECOVERY						
Reactive Cyanide by EPA 9010B  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag		
Analyte			L				
	<0.200	< 0.200	NC	20			

Lab Batch #: 705527

Date Analyzed: 10/02/2007

Date Prepared: 10/02/2007

Analyst: MAB

QC- Sample ID: 290554-002 D

Batch #:

Matrix: Soil

Reporting Units: mg/kg	SAMPLE SAMPLE DUPLICATE RECOVERY					
Reactive Sulfide by EPA 9030B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag	
Analyte		[B]				
Reactive Sulfide	<50.0	<50.0	NC	20	10.1	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.



## Sample Duplicate Recovery

Project Name: Used Oil & Oil & Rust

Work Order #: 290554

Lab Batch #: 705581

**Project ID:** #1, #2

Date Analyzed: 10/03/2007

10/03/2007 Date Prepared:

Analyst: JAH

QC- Sample ID: 290554-002 D

Soil pH by EPA 9045C

Analyte

Batch #:

5.32

Matrix: Soil

Reporting Units: SU

Parent Sample	Sample		Control	
Result	Duplicate	RPD	Limits	Flag
[A]	Result		%RPD	`

Lab Batch #: 705544

Date Analyzed: 10/02/2007

Date Prepared:

10/02/2007

5.29

Analyst: BEC

QC-Sample ID: 290554-002 D

Batch #:

Matrix: Soil

Reporting Units: mg/L

SAMPLE/SAMPLE DUPLICATE RECOVERY

TCLP BTEX by SW 8260B	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		{B}			
Benzene	<0.0010	<0.0010	NC	20	

Lab Batch #: 705560

Date Analyzed: 10/03/2007

**Date Prepared:** 10/03/2007

Analyst: AMB

QC- Sample ID: 290554-001 D

Batch #:

Matrix: Oil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY

TOX by EPA 9020B  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total Organic Halides	70.3	70.3	0	30	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.



# Sample Duplicate Recovery

Project Name: Used Oil & Oil & Rust



Work Order #: 290554

Lab Batch #: 705498

Date Analyzed: 10/02/2007 QC-Sample ID: 290505-002 D **Date Prepared:** 10/02/2007

Project ID: #1, #2\_\_\_

Analyst: MCH

Batch #:

Matrix: Soil

Reporting Units: mg/kg

SAMPLE / SAMPLE DUPLICATE RECOVERY

Reporting Onns. 11.5 115	Si tinita Elej	_ SAME BET SAME BE DETERMED RECOVERED					
Total Metals by SW6020A  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag		
Antimony	0.594	<0.561	NC	30			
Arsenic	1.31	1.51	14	30			
Barium	39.8	30.9	25	30			
Beryllium	0.119	0.150	23	30			
Cadmium	0.168	0.178	6	30			
Chromium	5.15	5.50	7	30			
Lead	3.07	3.39	10	30			
Mercury	< 0.0396	< 0.0374	NC	30			
Nickel	5.31	5.96	12	30			
Selenium	<0.297	<0.280	NC	30			
Silver	<0.198	<0.187	NC	30			

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XENCO
Laboratories

11381 Meadowglen, Suite L.	Houston TX 77082 281-589-0692
5309 Wurzbach, Suite 104,	San Antonio, TX 78238 210-509-3334

### **ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD**

5757 N.W. 158th Street, Miami Lakes, Fl 33014 305-823-8500

|--|

11078 Morrison Lane, Suite D, Dallas, TX 75229 972-481-9999

2618 South Falkenburg Rd, Riverview, Fl 33569 813-620-2000

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The Program: CLP AFCEE TRRP DW UST State Other.  Type DLa; DW CRDL TRRP CAPP MDLs See Lab PM Attached Call )  TRRP PCLs: Tier 1 Tier 2 Residential (Industrial Street)  The Sampling Date Time Signature  Sampling Date Time Signature  Sampling Date Time Signature  Sampling Date Time Signature  Sampling Date Signature  Samp	volce to Accounting 🗋 Inc. Invoice w	th Final Report	t 🛘 Invoice	must h	ave a P.	0		7 2	3	1.P8 1	PPs	1								9 S H	ll appl		Ma		
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Sample ID   Sampling   Time   E   State   Sampling   Case							38	1 1	2 2		3 S 7			9		2 54				/	Ana	are			人
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Relinquished by (Initials and Sign) Date & Time Relinquished by (Initials and Sign), Date & Time Rush Charges are Pre-Approved upon requesting them.    10   10   15   3   Instructions:   All XENCO Standard Terms and Conditions Apply.																					11				7
Relinquished by (Initials and Sign)  Date & Time Relinquished Legal (Initials and Sign), Date & Time Rush Charges are Pre-Approved upon requesting them.  10 -1 -3) 9/03  Instructions:  All XENCO Standard Terms and Conditions Apply.		1					1_																14	1411	8 <b>(1111)</b> (6)
Relinquished by (Initials and Sign) Date & Time Relinquished to (Initials and Sign), Date & Time Rush Charges are Pre-Approved upon requesting them.    10 -1 -2) 9/03   10   10   15   3   Instructions:    All XENCO Standard Terms and Conditions Apply.		<del>   </del>					-	<del>                                     </del>	-						1_		1-1-				$\prod$				a Lineshall
10-1-31 9/03 10/107 15:3 Instructions:  All XENCO Standard Terms and Conditions Apply.	Relinquished by (Initials and Sign)	Date &	Time	Parid	interior	( d=isiala		Ciro		ĻĻ.		<u></u>				<u> </u>						·	leta	1	10
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10/1/07 15 Ste Mate: (According to 10/107 /5/25 Containing Property of 10/10/10/10/10/10/10/10/10/10/10/10/10/1	JA			T		15	2	11	1		<u> </u>				tanda	rd Terms	and Co	onditions	Apply						
servatives: Various (V), HCl bH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C), None (NA), See Label (L), Other (O)		1 15.5	S 60 100	( ]		KJ	·	~	Di	107	7.	てつ	Conto	inara	2		7		~	nerat	ture:	1	900		

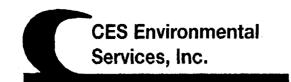


Check all that Apply:

	Prelogin/Nonconformance Re	eport- Sam	DIE LOG-I	п	
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.ab ID # : 🗂 💹	290554-7				
nitials:	A				
, major					
	Sample Receip	ot Checklis	t		•
A T	num of mantained another?	- Yes	No	N/A	4000
	ture of container/ cooler?	Yes	No	None	1 4-7 4 · (
	container in good condition? received on ice?	Yes	No	N/A	Shue/Water
	Seals intact on shipping container/ cooler?	Yes	No	N/A	CADE AA GIGA
	Seals intact on sample bottles/ container?	Yes	No	1 140	
	Custody present?	Yes	No		<u> </u>
	structions complete of Chain of Custody?	Yes	No		
	ng/extra samples?	Yes	No		
	Custody signed when relinquished/ received?	Yes	No		
	custody agrees with sample label(s)?	Yes	No		
	label(s) legible and intact?	Yes	No		
	atrix/ properties agree with Chain of Custody?	Yes	No		
	n proper container/ bottle?	Y98	No		
	roperly preserved?	Yes	No	NA	
	ntainer intact?	Yes	No		
6 Sufficient :	sample amount for indicated test(s)?	Yes	No	1	
	received within sufficient hold time?	Yes	No		
8 Subcontrac	ct of sample(s)?	Yes	No	NA	
9 VOC samp	les have zero headspace?	Yes	No	NA	
	*	•			
	Nonconformance Do	cumentation	on		
ntact:	Contacted by:			Date/Ti	me:
garding:		<del></del>		<del></del>	
ractive Assiss	T-leave				
rective Action	i aken:				
		-			
	.*				

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling avon

Foster Products Cosp. 162 2462



## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Ben Smith

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2462

Generator: Foster Products Corp.

**Address:** 6107 Industrial Way

Houston, TX 77011

### Waste Information

Name of Waste: Wastewater sludge

TCEQ Waste Code #: 00076092

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Sludge built up in wastewater tank

Color: white

Odor: none pH: 6-10

**Physical State:** 

Incompatibilities: none known

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Genera	ator Information				
Company:	Foster Products				
Address:	6107 Industrial Way				
City, State, Zip:	Houston, TX 77011		<u> </u>		
Contact:	Ben Smith	_	_ Title:	Shift Manager	
Phone No:	(713) 369-1030	_	_ Fax No:	713-676	
24/hr Phone:	(713) 926-8908		<del>-</del>		
U.S. EPA I.D. No:	NΛ	<del></del>	<u>-</u>	. N. A.	
State I.D.	31677	· 	_ SIC Code:	NA	
CECTION 4. Dillian	T-formation   Com	ne as Above			:
SECTION 2: Billing	Foster Products	ne as Above			
	6107 Industrial Way	=			—
_	Houston, TX 77011				—
	Ben Smith	Title:			—
	713-369-1030	Fax No:	713-926-8908		_
7 110116 140:	/13-309-1030	FAX 104	713-320-8300		
SECTION 3: Gener	al Description of the W	Vaste			
Name of Waste: Waste: Wasteiled Description		Waste: sludge built up	in wastewater tar	<u>nk</u>	
Physical State:	☐ Liquid [	⊠ Sludge [	Powder		
I Hysical State.		Filter Cake	Combination		
	Solid [	riiter Cake [	_ Combination	u .	
Color: white	Ode	or: <u>none</u>			
Specific Gravity (wa	ter=1): <u>1-1.3</u>	Density: 8.34-9 lbs/gal			
Layers:	Single-phase	Multi-phase			
Container Type:	☐ Drum	☐ Tote 🗵	Truck	Other (explain)	
<del>-</del> -			3000 gal		
Container Size:		·	<u> 2000 gai</u>	<del></del>	
Frequency:	Weekly	Monthly 🖸	Quarterly	☐ Yearly	
Number of Units (co	ntainers): 1	Other:			
Texas State Waste C	. –	6092			
Proper U.S. DOT Si	inning Name:	Non RCRA Non DO	T Regulated Mar	rerial	
<del>-</del> .	'				-
Class: NA	UN/NA:	NA	PG: NA	RQ: NA	
			<u>-</u>		
Flash Point	pH R	Reactive Sulfides	Reactive C	yanides Solids	
>200	1.	mg/l	Qmg/l	50-80%	
Oil&Grease	TOC	Zinc	Copper	Nickel	
Omg/l	>1000mg/l	<u>0</u> mg/l	Omg/l	<u>O</u> mg/l	

#### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE  The waste consists of the following materials	Ranges are acceptable	Units or %	
Water	20-50	%	
Soilds/Sludge	50-80	%	
		<del> </del>	

#### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

None Known

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

X
<u>x</u>

#### SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Len Smith	Date: 10-10-07
Printed Name/Title: Ben Smith - ShixT mages -	

CES USE ONLY (NO NOT WRITE IN THIS SPACE)  Compliance Officer: Robble Abertal	Process Facility Information: \$0.5019al
Approved Rejected  Approval Number: 2462	Redirect ISL

<u>SE</u>	CTION 10: Waste Receipt Classification Under 40 CFR 4	<u>137</u>
Is 1	this material a wastewater or wastewater sludge?   YES	⊠ ио
If	'Yes', complete this section.	
PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRLATE CATEGORY, GO TO THE NEXT PAGE.
Meta	uls Subcategory: Subpart A	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electropy	ectroplating or phosphating operations
	Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equ	- · · · · · · · · · · · · · · · · · · ·
<u>Oils</u>	Subcategory: Subpart B	
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum source Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	es
<u>Org</u>	anics Subcategory: Subpart C	
	Landfill leachate Contaminated groundwater clean-up from non-petroleum so Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation	ources
	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	

(1)	If the v	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excevalues listed below, the waste should be classified in the metals subcategory.
	Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L :: 4.9 mg/L : 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory

#### **SECTION 11: Additional Instructions**

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

#### MATERIAL SAFETY DATA SHEET

#### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY INFORMATION

MSDS INFORMATION

Foster Products Corporation H.B. Fuller Company Subsidiary

2900 Granada Lane Oakdale, MN 55128 Phone: 651-236-3785

Fax: 651-236-3781

Preparation Date: 18 July 1999

Supersedes: 04 March 1999

Prepared By: Industrial Hygiene

Phone Number: 651-236-5842

Medical Emergency Phone Number: 1-888-853-1758 Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

#### PRODUCT INFORMATION

Product Name/Number: FOSTER 32-19

Product Description (product use): SEALANT

#### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Mater: als Information System (WHMIS). Unlisted ingredients are not 'hazardous' per the OSHA standard and/or are not found on the WHMIS ingredient disclosure list.

Chemical/CAS Number

Percent OSHA PEL

ACGIH TLV

See Section 16 for additional information.

#### SECTION 3: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Possible cancer hazard. Contains a material which may cause cancer.

#### POTENTIAL HEALTH EFFECTS

Eyes: Eye contact with liquid product may cause irritation.

Skin: Prolonged or Repeated contact with liquid product may cause

irritation.

Inhalation: Inhalation is not an anticipated route of exposure.

Ingestion: Not an anticipated route of exposure. Harmful if swallowed.

Chronic: When the product is in its final form and is abraded or disturbed, dusting may occur and crystalline silica may be released into the air. Long-term overexposure to crystalline silica may cause permanent lung damage and reduced pulmonary function.

No anticipated chronic effects.

REGULATED CARCINOGEN STATUS: Unless noted below, this product does not contain regulated levels of NTP, IARC, ACGIH or OSHA listed carcinogens.

Crystalline solica is listed as a potential carcinogen by NTP and IARC.
Vinyl acetate is listed as a potential carcinogen by IARC.

Existing Health Conditions Affected by Exposure: No known effects on other illnesses.

#### SECTION 4: FIRST AID MEASURES

- If in eye: Flush immediately with water for 15 minutes. Consult a physician if irritation persists.
  - If on skin: Wash affected area with soap and water. Launder contaminated clothing before reuse.
  - If vapors inhaled: Remove subject to fresh air.
  - If ingested: If person can swallow, give one glass of water or milk.

    Do not induce vomiting. Get immediate medical attention.

    Never give anything by mouth to an unconscious person.

#### SECTION 5: FIRE FIGHTING MEASURES

Flash Point/Method: > 200 degrees F SETA

Upper Explosive Limit/Lower Explosive Limit: Not applicable

Autoignition Temperature: Not applicable

- Appropriate Extinguishers: Non-flammable in liquid state; use water spray, foam, dry chemical or carbon dioxide on dried product.
- Special Fire Fighting Procedures: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
- Unusual Fire and Explosion Hazards: There is the possibility of pressure ouildup in closed containers when heated. Water spray may be used to cool the containers.

VOC:

Not established

VOC, less water

19 g VOC/liter of material, less water and

exempt solvents

(VOC theoretically determined using EPA

Publication 450/3-84-019.)

#### SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable

Incompatibility Not established

Hazardous Decomposition: Not established

Hazardous Polymerization: Will not occur

#### SECTION 11: TOXICOLOGICAL INFORMATION

No data available

#### SECTION 12: ECOLOGICAL INFORMATION

No data available

#### SECTION 13: DISPOSAL CONSIDERATIONS

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

#### SECTION 14: TRANSPORTATION INFORMATION

#### UNITED STATES DEPARTMENT OF TRANSPORTATION (DOT)

DOT Proper Shipping Name: NOT REGULATED

It is our opinion that the information provided here may be used to transport this product in compliance with Canadian Transportation of Dangerous Goods

#### INTERNATIONAL TRANSPORTATION

IATA Proper Shipping Name: NOT REGULATED

IATA Label:

SECTION 15: REGULATORY INFORMATION

FEDERAL

Toxic Substances Control Act (TSCA)

Section 4 - Test Rule

This product contains a chemical substance that is subject to a Section 4 Test Rule.

Contact the company TSCA Compliance Manager at 651/236-5858 for the identity of the Section 4 chemical(s).

Section 8(b) - Inventory Status

This product is in compliance with the Toxic Substances Control Act's Inventory requirements.

Section 12(t) - Export Notice Requirements

This product contains a chemical substance that is currently on the EFA's Section 12(b) Export List. Within seven days of entering into a contract to export and certainly no later than the day of export, the agent of export must notify the EPA of their intent.

Contact the company TSCA Compliance Manager at 651/236-5858 for the identity of the Section 12(b) chemical(s).

#### SARA TITLE III

Section 313: This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372.

Chemical Name

CAS Number

Percent

#### STATE REGULATIONS

California Proposition 65: This product contains chemical(s) known to the state of California to cause cancer (c) or reproductive (r) damage. <0.0057% Acetaldehyde (c) 75-07-0 listed April 1, 1988 <0.0001% Benzene (c) 71-43-2 listed February 27, 1987 <0.0028% Formaldehyde (c) 50-00-0 listed January 1, 1988 0.1-1.0% Crystalline silica (c) 14808-60-7 listed October 1, 1988 <0.0003% 1,4-Dioxane (c) 123-91-1 listed July 1, 1988 <0.0025% Ethyl acrylate (c) listed July 1, 1989 140-88-5 <0.0007% Lead (c)(r) 7439-92-1 listed February 27, 1987 <0.0014% Toluene (r) 108-88-3 listed January 1, 1991

WHMIS IDENTIFICATION/OTHER INTERNATIONAL REGULATIONS

D2B

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to Foster Products Corporation from its suppliers, and because Foster Products Corporation has no control over the conditions of handling and use, Foster Products Corporation makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and Foster Products Corporation assumes no responsibility for use or reliance thereon. It is the responsibility of the user of Foster Products Corporation products to comply with all applicable federal, state and local laws and regulations.

2463 Hydnil Company (47C) 2463

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Carmen Ortega

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2463

Generator: Hydril Company LP (HTC)

Address: 3300 Sam Houston Pkwy E

Houston, TX 77032

Waste Information

Name of Waste: TPH contaminated soils

**TCEQ Waste Code #:** 00194891

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Remediation of petroleum contaminated soils

.

Color: brown Odor: hydrocarbon pH: 4-10

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

## CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	rator Information				
Company:	Hydril Inc.				
Address:	3300 North Sam Ho	uston Parkway	·		
City, State, Zip:	Houston, TX 77032				
Contact:	Carmen Ortega		Title:	Environn	nental Manager
Phone No:	832-212-8008		Fax No:	281 985-	
24/hr Phone:	713 302-7588		<del></del>		
U.S. EPA I.D. No:	TXD988059184		<del></del>		
State I.D.	31401		SIC Code:	NA	<b>t</b>
			_		
SECTION 2. Billing	g Information – 🛛 Sa	me as Above			
Company:	MIOI MATION VY CL	MI 45 115 51 5			
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No:		<del></del>	
Fhone No:		TAX NO.			
COCTION 2 C		17/2 44 -			
SECTION 3: Gene	ral Description of the	waste			
	H Contaminated Soils n of Process Generatin	g Waste: remediation of p	petroleum conta	minated soil	<u>s</u>
			- ·		
Physical State:	Liquid Liquid	☐ Sludge ☐	_ Powder		en e
	⊠ Solid	Filter Cake	🗌 Cembinatio	n	
Color: Brown	Oc	ior: IPH hydrocaloo	'Y\		
		,			
Specific Gravity (wa	ater=1): 2	Density: 15 lbs/gal			## 1 ( )
Specific Gravity (w.					
Layers:	Single-phase	Multi-phase			
Layers:	M 2mgie-huase	with-phase			
	57 5				
Container Type:	□ Drum	Tote	Truck	الل	Other (explain)
Container Size:	<u>55gal</u>				
•		• •			
Facerana	☐ Weekly	☐ Monthly ⊠	Ougsto-la		Vacult
Frequency:	<del></del>		Quarterly	لہا	Yearly
Number of Units (co	ontainers): <u>6</u>	Other:			
Texas State Waste (	Code No: O	0194891			
Proper U.S. DOT SI		Non-DOT Regulated	Materials		
<del>-</del>					
Class: N/A	UN/NA	: N/A	PG: N//	٩.	RQ: N/A
	·	. A contraction		·	
Flash Point		Reactive Sulfides	Reactive C		Solids
<u>&gt;214 f</u>		<5mg/l NA		27 <u>A</u>	100%
Oil&Grease	TOC	Zinc	Copper		kel
≥mg/1 > 1000	N/Amg/l	N/Amg/I	N/Amg/l	N/A	<u>∖</u> mg/l

#### SECTION 4: Physical and Chemical Data

### (### (### (### (### (### (### (###	COMPONENTS TABLE  The waste consists of the following materials		1.20 1.74.3 1.20 1.74.3	Concentration Ranges are acceptable	Units or %
soils	= 1 2 2 2 2		=::	95-100	%
debris	=	.4.		0-5	%
<del>-</del>				=	

#### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. None

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

None Analysis

#### SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:

TCLP Volatiles:

No volatiles in process

TCLP Semi-Volatiles:

No semi-volatiles is process

Reactivity:

Material contains no reactive materials \( \)

Corrosivity:

Material is a solid

Ignitability:

No flammable constituents

#### SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:

John S. Falm

Date: 8-17-07

Printed Name/Title:

KELVIN PARKER

EHAS COORDINATOR

CES USE ONLY (DO NOT WRITE IN THIS S	SPACE)	7
Compliance Officer: Rether	They a	Additional Information:
Date: 10-10-07 (A	Approved Rejected	Call Joy for per billing info.
Approval Number: 2463		

Byproduct waste glycol Wastewater from paint washes

Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

			A CONTRACTOR OF THE CONTRACTOR	
SECT	ION 10: Waste Receipt Classification Under 40 CFR 437		The state of the s	AND
	The state of the s		The second secon	60,4000da (1000000000000000000000000000000000000
Is this	material a wastewater or wastewater sludge?   YES  N	0 =		2.00
	The state of the s			*-
If 'Ye	s', complete this section.		ai. A.	
n.r.r.	OF CUECK THE ABBROADS ATE BOY IT NO ABBROADS AT			
PLEA	SE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATI	E CATEGORY, GO	) TO THE NEXT P.	AGE.
Matair	Subcategory: Subpart A		<del>-</del> 7,	
Wieners C	wocuterory. Support A			
$\Box$ s	pent electroplating baths and/or sludges			
	letal finishing rinse water and sludges			
- China	hromate wastes			
ПА	ir pollution control blow down water and sludges			
	pent anodizing solutions			
	cineration wastewaters			
	Vaste liquid mercury			
	yanide-containing wastes greater than 136 mg/l			
	Vaste acids and bases with or without metals			
	leaning, rinsing, and surface preparation solutions from electroplating	ng or phosphating c	perations	
	ibratory deburring wastewater	g or binospirating c	porumono	
	lkaline and acid solutions used to clean metal parts or equipment			
	1-1			
Oils Sub	category: Subpart B			
U 🔲	sed oils			
	il-water emulsions or mixtures			
L	ubricants			
□ c	oolants			
	ontaminated groundwater clean-up from petroleum sources			
	sed petroleum products			
	il spill clean-up			
	ilge water			
R	inse/wash waters from petroleum sources			
☐ Ir	iterceptor wastes		t to the	
	ff-specification fuels			
U 🔲	nderground storage remediation waste			
	ank clean-out from petroleum or oily sources			
□ N	on-contact used glycols			
□ A	queous and oil mixtures from parts cleaning operations			
□ v	Vastewater from oil bearing paint washes			
<u>Organic</u>	s Subcategory: Subpart C			
	andfill leachate			
	ontaminated groundwater clean-up from non-petroleum sources			
	olvent-bearing wastes			
	ff-specification organic product			
☐ S	till bottoms			

=

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- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

Oils Subcategory

Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

## Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

**CES Environmental Services** 

4904 Griggs Rd Houston, TX 77021 Phone: (713) 676-1460

Fax: (713) 676-1676

Attn:

Joy Baker

- CERTIFICATE OF RESULTS -

MES Lab#:

7090696

Client Sample ID:

**TPH Soil** 

Extended ID:

Hydril HTC @ 3300 Sam Houston Pkwy E, Houston, TX 77032

Sample Collect Date: 9/21/2007 @ 2:30:00 PM

Sample Type:

Comp

Sample Receipt Date: 9/26/2007 @ 8:07:00 AM

Test Group / Method

BTEX Method: SW-846 8021B	MDL_	Result	Units	Analyst; TFR Date / Time
Benzene	0.5	< 0.5	mg/kg	10/5/2007 / 3:46 AM
Toluene	0.5	< 0.5	mg/kg	10/5/2007 / 3:46 AM
Ethyl benzene	0.5	< 0.5	mg/kg	10/5/2007 / 3:46 AM
M+P-Xylene	0.5	< 0.5	mg/kg	10/5/2007 / 3:46 AM
o-Xylene	0.5	< 0.5	mg/kg	10/5/2007 / 3:46 AM

Flags: ,H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Monday, October 08, 2007

Date

Report Date: 08-Oct-07

Page 1 of 1

7090696

## MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

ANALYTES	METHOD 8021B	MB mg/L	MS %REC	MSD %REC	RPD	STD %REC	
Benzene		< 0.005	90.8	91.0	0.22	89.6	
Toluene		< 0.005	100.0	101.0	1.00	98.9	
Ethylbenzene		< 0.005	99.8	104.0	4.12	99.7	
m+p Xylene		< 0.005	102.0	112.0	9.35	110.3	
o-Xylene		< 0.005	97.3	108.0	10,42	103.2	
SURROGATE	SPIKE RECO	VERY FOR BTEX	(			% REC	

#### Standards Utilized:

4-Bromotluorobenzene

BTEX: 5-point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene.

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank

LCS=Laboratory Control Standard CCV=Continuing Calibration Verification CCB=Continuing Calibration Blank Rec=Percent Recovery

Signature / / / / / Holland D. Gilmore / Laboratory Director

October 8, 2007

101.6

63/63

69/69	COMPANY NAME: (BILL TO:) CES &	nvi ronn	rentel	)			ME	ES		- CI	HAIN	OF (	CUST	YGO	1-800-771-4MES (281) 476-4534
	COMPANY ADDRESS: 4904 CM	<u> </u>	TE TX	710	701		Mercu 5913 Hu	ry E vy. 225	nvir • De	onme er Park	ntal TX 7	Seri 7536	vices		Fax (281)-476-4406
PAGE	CONTACT PERSON'S NAME: LOT BA	he-		217			PA	RAME	TERS F	OR AN	ALYSIS				5 REMARKS
	CONTACT PERSON'S PHONE: 28-70-	8571	→ :# FAX	73-67	6-18076	4	- /						NUMBER OF CONTRIN	S /	TURNAROUND TIME
	YOUR PROJECT NO.: YOUR P.O. 4:	T		OJEC NAME:		1/	St.	- /					ON7A	/ 5	ASAP
•	PROJECT ADDRESS:	1 Hyd	oc HT	<u> </u>		1/ (	Z				/	/	A OF	PRESERVATIONS	DETECTION LIMITS SPECIAL LIMITS REQUIRED
•		GRABICOMP.		2 7703		∤	/	/ ,	/ /	/ /	1	' /	MUMBE	#ESE	Yes No Please circle one, if Yes,
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2	PERSON TAKING SAMPLE SIGNATURE (a Print Name &	for	Bah			OU THE	BASA	·			DATE 9/2	孙	TIME	51	randuh
16:43	RELINQUISHED BY: DATE (Signature)	TIME ()	RECEIVED (Signature)	BY:	AEU (Signal	HOVEHE WIE	D BY:				DATE		TIME	REC (Sign	CEIVED BY:
	METHOD OF PAYMENT SHIPPE (Signal)	ED BY:		COU (Signal	RIER Blure)				(S	AND FO	R MES	T.	17	 И	0807
0/08/2007	Sample Remainder Disposal  Breturn Sample Remainder To Client Vis					lequest	Lab To D	)ispose (	Of AJI S	mple Re	mainde	eis	<b>/1</b>	ate)	9/26
Constitution (Sept. 1997)	Therman Sample Memanika to Onem Ale												- 10	,	



4904 Griggs Road Houston X 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: na

## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Billy LeBlanc

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2464

Generator: Ethyl Corporation

Address: 1000 N. South Street

Pasadena, TX 77501

#### Waste Information

Name of Waste: Diesel fuel additive

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Off-spec unused product

Color: light yellow Odor: light ester

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



13.13

4904 Griggs Roads Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener				
Company: =	Ethyl Corportation			
Address:	1000 N. South Street (P.O. Box 472)			
City, State, Zip:	Pasadena, TX 77501			1
Contact:	-Steve Livesay Dewaine Kay		EHS Mgr. Enur. Specialis	<u> </u>
Phone No:	713-740-8371	_ Fax No:	713-740- <del>831</del> 0 831 <b>7</b>	
24/hr Phone:	CES-713-676-1460	_		
U.S. EPA I.D. No:	TXD008096158		AA	
State I.D.	30465	SIC Code:		
OF OFFICE A PUBL	T			
SECTION 2: Billing	Information - Same as Above Ethyl Corporation			
	P.O. Box 472			
	Pasadena, TX 77501			
	Steve Livesay Dewaine Kay Title:	EHS Manager	Furt. Specialist	<del></del>
-	713-740 <del>-8371</del> 9317 Fax No:	713-740-8310	8317	
	021,			
SECTION 3: Gener	al Description of the Waste			
<del></del>				
Name of Waste: <u>Die</u>	sel Fuel Additive			
<b>Detailed Description</b>	of Process Generating Waste: Off-Spec un-use	ed product		
Physical State:	□ Sludge □	Powder		
	Solid Filter Cake	Combination		
14 - 11 14 14 <u>1</u>				
Color: light yellow	Odor: Ester			
en e				
Specific Gravity (wa	ter=1): <u>.96</u> Density: <u>8</u> lbs/gal			
			to the state of th	
Layers:	Single-phase			
·				
Container Type:	□ Drum □ Tote □	Truck	Other (explain)	
Container Size:	<u>55</u>	***** <u></u>	·	
Frequency:	☐ Weekly ☐ Monthly ☒	Quarterly	☐ Yearly	
· · · •		Quarterry	Li fearly	
Number of Units (co				
Texas State Waste C	ode No: NA-Recyclable Material	de de		
Proper U.S. DOT Sh	ipping Name: Combustible liquid, n	.o.s., combustible	liquid, NA 1993, PG-III	
Class: combus	UN/NA: NA 1993	PG: III	RQ: NA	
	UNINAL NA 1993	1 <b>G.</b> III	KQ. NA	
tible liq.				
		y the second	***************************************	
Flash Point	pH Reactive Sulfides	Reactive Cy	anides Solids	-
149 F	NA Omg/l	Omg/I	onides 50ilds	
Oil&Grease	TOC Zinc	Copper	Nickel	
>1500mg/I	>1500mg/l 0mg/l	Omg/I	Oma/I	

#### SECTION 4. Physical and Chemical Data

<b>COMPONENTS TABLE</b>			Con	Units	
The was	ste consists of the following materials	2 DOMESTICAL STATE OF THE STATE	Ranges	or %	
2-Ethylhexy nitrate	The second secon	- CANADA	>99%	A CONTRACTOR OF THE PROPERTY O	%
		-			
			<del></del>		
	· · · · · · · · · · · · · · · · · · ·				
				:	

SECTION	5:	Safety	Related	Data

If the handling of this waste requires the use of special protective equipment, please explain. Level  ${\tt C}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

#### **SECTION 9: Generator's Certification**

Approval Number: 2464

attached description is complete and accurate to the best of my-1		
omissions of composition properties exist and that all known or su		
tested are representative of all materials described by this document.		•
Authorized Signature: A Wark & Mark	Date: 6/9/2007	
Printed Name/Title: Finn. Secretarist	Dewaine Kay Frisconnental	Specialist
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	50°°	•
Compliance Officer: Palot. 1871	Additional Information:	

Rejected

Approved

The information contained herein is based on 🛛 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and

Bully Face 13.

#### SECTION 10: Waste Receipt Classification Under 40 CFR 437

-		<u> </u>		<b>53</b> 370			TOTAL STREET
IS	this material a wastewater or wastewater sludge	? ∐_Y	ES	⊠ NO			
∷ ≕τ¢	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		A CONTRACT OF STREET				Party Control
П	'Yes', complete this section.	: =-					
 D	I E 4CE CHECK THE ADDRADDIATE DAY	E.	. ∷ ADDDAN	DIATE C	TECODY A	CO TO THE NE	WT BACE
P	LEASE CHECK THE APPROPRIATE BOX. I	IF NO A	APPKUP	KIAIE CA	i <i>legoky</i> , c	JU IU IHE NE	XI PAGE.
Meta	tals Subcategory: Subpart A	=	÷.;				
$\Box$	Spent electroplating baths and/or sludges						
Ħ	Metal finishing rinse water and sludges						
$\sqcap$	Chromate wastes						
Ħ	Air pollution control blow down water and sh	udges					
Ħ	Spent anodizing solutions						
Ħ	Incineration wastewaters						
Ħ	Waste liquid mercury						
Ħ	Cyanide-containing wastes greater than 136 n	ng/l					
Ħ	Waste acids and bases with or without metals						
Ī	Cleaning, rinsing, and surface preparation solu	utions fi	rom elec	roplating of	or phosphatin	g operations	
$\overline{\sqcap}$	Vibratory deburring wastewater			. •	• •		
$\overline{\sqcap}$	Alkaline and acid solutions used to clean meta	al parts	or equip	nent			
		-					
Oils	S Subcategory: Subpart B						
$\Box$	Used oils						
Ħ	Oil-water emulsions or mixtures						
Ħ	Lubricants						
Ħ	Coolants						
	Contaminated groundwater clean-up from pet	roleum	sources				
$\Box$	Used petroleum products			. •			
Ħ.	Oil spill clean-up			*			
$\Box$	Bilge water						
$\overline{\Box}$	Rinse/wash waters from petroleum sources		٠,				4.7

#### Organics Subcategory: Subpart C

Non-contact used glycols

Interceptor wastes

Landfill leachate	
Contaminated groundwater clean-u	p from non-petroleum source
Solvent-bearing wastes	
Off-specification organic product	
Still bottoms	
Byproduct waste glycol	
Wastewater from paint washes	
Wastewater from adhesives and/or	epoxies formulation
Wastewater from organic chemical	
Tank clean-out from organic, non-	· · · · · · · · · · · · · · · · · ·

Aqueous and oil mixtures from parts cleaning operations

Off-specification fuels
Underground storage remediation waste
Tank clean-out from petroleum or oily sources

Wastewater from oil bearing paint washes

(1)	If the w	aste contains oil and grease at	or in excess	of 100 mg/I	, the wast	e should be classific	ed in the oils subca	tegory	200 MA
(2)		aste contains oil and grease les alues listed below, the waste sl					pelow in concentra	tions in	
			- Z		- III CUI 10 DU	ocutogory.			<u> 25</u>
	<del>-</del>	m: 0.2 mg/L	-						
		um: 8.9 mg/L				•			
	Copper	4.9 mg/L			283	16%			
	Nickel:	37.5 mg/L							
(3)		aste contains oil and grease les bove any of the values listed a Metals Subcategory						ım, cop	per, or
		Oils Subcategory							
		Organics Subcategory							

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



Material
Safety Data Sheet

MSDS No.

H4103

HiTEC is a trademark owned by Afton Chemical Corporation or one of its subsidiaries.

#### 1. Product and Company Identification

**Product Use** 

Petrochemical industry: Diesel Fuel Additive

Validation Date

11 January 2006

in Case of Emergency

1-800-403-0044 (US & Canada) 1-804-648-7727 (International) 32-2-507-20-64 (Europe) 81-3-5210-4890 (Japan)

Manufacturer / Supplier

Afton Chemical Corporation 500 Spring St. Richmond, VA 23219 1-804-788-5800

In Japan: Afton Chemical Japan Corporation Sumitomo Fudousan Sanbancho Bldg. 5F 6-26 Sanbancho, Chiyoda-ku Tokyo 102-0075 Japan Emergency phone: 81-3-5210-4890 Afton Chemical Limited Euro-Tech Centre London Road, Bracknell, Berkshire RG12 2UW, England 44 1344-304141

In Australia: Afton Chemical Asia Pacific Company Level 9, 20 Berry Street North Sydney, NSW 2060 Australia Telephone number: 02-9923-1588 Business Hours: 9:00am - 5:00pm

#### 2. Composition and Information on Ingredients

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information.

Substance/Preparation

: Preparation

Ingredient Name

CAS No.

Conc. (% w/w)

**EU Classification** 

<u>WHMIS</u> Regulated?

2-Ethylhexyl nitrate

27247-96-7

>99

R44 Xn; R20/21

Yes.

#### 3. Hazards Identification

Notice to Reader

Afton operates a world-wide system for hazard communication. Some hazards shown in Section 3 may apply to non-EU countries and may not result in classification and labeling in the EU. Please see Section 2 and 15 for country specific classification information, and Section 11 for additional details.

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Primary Hazards and Critical Effects

: WARNING!

COMBUSTIBLE LIQUID AND VAPOR

HARMFUL IF INHALED OR ABSORBED THROUGH SKIN.

ASPIRATION HAZARD IF SWALLOWED.

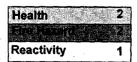
Physical/Chemical Hazards

: When heated above 100°C/212°F may undergo a self-accelerating, exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature. Combustible.

**Environmental Hazards** 

: Not classified as dangerous for the environment according to EC criteria.

Hazardous Material Information System (U.S.A.)



#### First Aid Measures

Inhalation

: If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical

Ingestion

DO NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If affected person is fully conscious, give one glass of water to drink. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Skin Contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.

**Eve Contact** 

: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

#### Fire-Fighting Measures

**Extinguishing Media** 

In case of fire, use water spray (fog), foam, dry chemical, or CO2.

200

Fire-Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. When heated above 100°C/212°F may undergo a self-accelerating, exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature

Spray storage vessels with water to maintain temperature below 100°C/212°F.

Fire/Explosion Hazards

Combustible liquid and vapor. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back.

**Hazardous Decomposition Products** 

These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

Flash noint

Closed cup: 65°C (149°F) (Pensky-Martens. Minimum)

#### Accidental Release Measures

**Personal Precautions** 

Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Do not touch or walk through spilled material

**Environmental Precautions** and Clean-up Methods

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterway

Note: See section 1 for emergency contact information and section 13 for waste disposal.

#### Handling and Storage

Handling

Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire, minimize ianition sources

Storage

Keep container in a well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Keep container in a well-ventilated place.

#### Exposure Controls and Personal Protection

**Engineering Controls** 

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

**Personal Protective Equipment** Respiratory System

Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s). (Approved/certified respirator with organic vapor cartridges.)

Skin and Body

Where contact is likely, wear chemical resistant gloves, a chemical resistant suit, and boots. Additional body garments should be used based upon the task being performed.

Hands

Use chemical resistant, impervious gloves.

Eyes

Safety glasses with side shields. Goggles with a face shield may be necessary depending on quantity of material and conditions of use.

**Occupational Exposure Limits** 

Ingredient Name 2-Ethylhexyl Nitrate

**OEL United States** Afton (United States).

**OEL Canada** Afton (Canada).

OEL Europe Afton (Europe). TWA: 1 ppm 8

OEL Australia Afton (Australia). TWA: 1 ppm 8 hour(s)

TWA: 1 ppm 8 TWA: 1 ppm 8 hour(s).

hour(s).

hour(s).

100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100 mm / 100

#### 9. Physical and Chemical Properties

Physical State and Appearance

e : Liquid.

Color

: Colorless to light yellow.

Odor

: Fruity. Pungent. Ester. Characteristic.

Vapor Pressure

: 0.2 mmHg at 20°C.

Specific Gravity

: 0.96 at 20°C

Solubility

: 12.6 mg/L @ 20°C (Solubility in water)

Viscosity

1.8 cSt at 20°C (typical).

**Auto-Ignition Temperature** 

: 130°C (266°F)

Flash Point

: Closed cup: 65°C (149°F).(Pensky-Martens. Minimum)

#### 10. Stability and Reactivity

Stability 2

: Unstable at temperatures greater than 100°C/212°F.

Materials to avoid

: Strong oxidizing and reducing agents.

Conditions to avoid

: High temperatures, sparks, and open flames.

#### 11. Toxicological Information

Routes of Entry

Skin, Eyes, Inhalation and Ingestion.

Target Organs

: Contains material which may cause damage to the following organs: cardiovascular system.

Acute Effects

Inhalation

. Harmful by inhalation. Overexposure to organic nitrates by inhalation of vapor or skin contact may cause headache,

dizziness, nausea, and decreased blood pressure.

Ingestion
Skin Contact

: Aspiration hazard if swallowed- can enter lungs and cause damage. Does not meet EU R65 classification criteria.

: Harmful in contact with skin. Overexposure to organic nitrates by inhalation of vapor or skin contact may cause headache, dizziness, nausea, and decreased blood pressure.

**Eye Contact** 

: Non-irritating to the eyes.

**Chronic Effects** 

Adverse Effects

None known.

Carcinogenic Effects

Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

**Toxicity Data** 

Ingredient Name

Test

Result

Route

Species

HiTEC 4103 Cetane Improver

LD50 LD50 >10000 mg/kg >5000 mg/kg Oral Dermal Rat Rabbit

Other Information

: Not available.

#### 12. Ecological Information

**Environmental Hazards** 

: Not classified as dangerous for the environment according to EC criteria. Based on test data for this or similar products.

**Environmental Fate** 

: This product contains components which may be persistent in the environment.

#### 13. Disposal Consideration

Waste Handling and Disposal

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
DOT Classification	NA1993	Combustible liquids, n.o.s. (2-ethylhexyl nitrate).	Combustible Liquid.	III .		Remarks Marine pollutant
TDG Classification	UN3082	Environmentally hazardous substance, liquid, n.o.s. (2-ethylhexyl nitrate)	9			Not available.
ADR/RID Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (2-ethylhexyl nitrate)	9	<b></b>		Hazard Identification Number 90

HITEC 4103 Ceta	ne Improver	In Case of Emergency 1	-800-403-004	14 (US/Cana <u>da) 1-</u> 804	-648-7727 (Int'l) 32 <b>-2-</b> 50	7-20-64 (Eu) Page: 4/5
IMDG Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (2-ethylhexyl nitrate)	:		MARINE POLLUTANT	Marine Pollutant
IATA-DGR Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (2-ethylhexyl nitrate)	9	111		₹.
ADG Class	UN3082	Environmentally hazardous substance, liquid, n.o.s. (2-ethylhexyl nitrate)	9	III		-

#### Notice to Reader

The above transport information is provided to assist in the proper classification of this product and may not be suitable for all shipping conditions.

#### 15. Regulatory Information

#### **EU Regulations**

Hazard Symbol(s)



Harmful

Risk Phrases

R44- Risk of explosion if heated under confinement.
 R20/21- Harmful by inhalation and in contact with skin.

Safety Phrases

S15- Keep away from heat. S23- Do not breathe vapor.

S24/25- Avoid contact with skin and eyes.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

Contains

2-Ethylhexyl nitrate

Additional Warning Phrases

: Not applicable.

**US Regulations** 

: No SARA 313 chemicals are present above the reporting threshold.

: SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire Hazard, Reactive, Immediate (Acute)

Health Hazard

State

: California prop. 65: No products were found.

#### Canadian Regulations

WHMIS (Classification)

: Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

Class F: Dangerously reactive material.

#### **International Inventory Status**

**United States** 

All components on TSCA Inventory

Canada

: All components on DSL

Europe

: All components on EINECS

Japan

All components on METI

Australia

: All components on NICNAS

Korea

All components on ECL

China

All components on IECSC

Philippines

All components on PICCS

#### 16. Other Information

#### PREPARATION INFORMATION

Validated by \_HS&E Department (Tel: +1 804 788 5800) on 1/11/2006,

Version

ै: 1

Date of Printing

4/28/2006.

Indicates information that has changed from previously issued version.

Notice to Reader

This information and these recommendations are offered in good faith and believed to be correct as of the date hereof. Information and recommendations are supplied upon the condition that the recipients will make their own decision as to safety and suitability for their purposes. No representations or warranties, either expressed or implied, of merchantability, funess for a particular purpose, or of any other nature, are made with respect to the product or the information and recommendations. Afton makes no representation as to completeness or accuracy. In no event will Afton be responsible for damages of any nature whatsoever resulting from the use or reliance upon the information and recommendations.

#### ADDRESS CONTACT INFORMATION

In the United States and Canada: Afton Chemical Corporation 500 Spring Street Richmond, Virginia USA 23219-2183 Telephone number: 804-788-5800

In Singapore:
Afton Chemical Asia Pacific Company
111 Somerset Road
#09-05
Singapore Power Building
Singapore 238164
Telephone number: 65-6732-0822

In Australia:
Afton Chemical Asia Pacific Company
Level 9, 20 Berry Street
North Sydney, NSW 2060
Australia
Telephone number: 02-9923-1588
Business Hours: 9:00am - 5:00pm

In Europe: Afton Chemical Limited Euro-Tech Centre London Road, Bracknell, Berkshire RG12 2UW, England 44-1344-304141

1

==

In Japan: Afton Chemical Japan Corporation Sumitomo Fudousan Sanbancho Bldg. 5F 6-26 Sanbancho, Chiyoda-ku Tokyo 102-0075 Japan Emergency phone: 81-3-5210-4890

\*\*\* END OF MSDS \*\*\*



# Sample Evaluation Form [183 173-1018 Date ...

Sample ID # 00183 #

Date  $\underline{6}_{1}28_{1}07$ 

Please Complete This Section	
Generator / Customer Name: E 444 /	
Name or Type of Waste: Firefactofities Summer A/13	
Name or Type of Waste: Fuel acd tises Sumple A/B  Process Generating Waste: Aft spee Aradust	
Number of Samples : Submitted By :	
Analysis To Be Completed: Campe, Y'b. 1149 WI Fuels	
Turnaround Time :	
Other:	
( Lab Use Only )	
Sample Results: 5 G 0.96 - 0.92 (brown)	
Suggested Method of Treatment: MIX WITH CES GASOLINE TANK	
Suggested Price Range :	
Sample Results Reported to	
Test Completed By: GO de fr Date: 06 / 30 / 07 Time:	

Ethyl Geptestion 2465 2465 7 E 4-09 8-4-09 LP34

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Billy LeBlanc

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2465

Generator: Ethyl Corporation

Address: 1000 N. South Street Pasadena, TX 77501

,

#### Waste Information

Name of Waste: Diesel fuel additive

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Off-spect unused product

Color: light yellow

Odor: ester

pH: na

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021 Fax: (713) 676-1676

Phone: (713) 676-1460

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	rator Information			·
Company:	Ethyl Corportation	1		
Address:	1000 N. South Str	eet (P.O. Box 472)		
City, State, Zip:	Pasadena, TX 77:			,
Contact:	-Steve Livesay	Daxine Kay	Title:	EHS Mgr. Envi. Specialist
Phone No:	713-740-8 <del>371-</del>	6317	Fax No:	713-740-8310
24/hr Phone:	CES-713-676-146			
U.S. EPA I.D. No:	TXD008096158	<u> </u>	<del></del>	, i
State I.D.	30465		SIC Code:	NA
State II.S.				
SECTION 2: Billin	g Information -	Same as Above		
Company:	Ethyl Corporation	Same as Above		
Address:	P.O. Box 472			
City, State, Zip:	Pasadena, TX 7750	<del></del>	<del></del>	
Contact:			EHS Manager	- Smy. Spec.
Phone No:		Saint (ay Title: Fax N		Znut. Spec.
Phone No:	/13-/40-69-71	rax r	10: 713-740-8310	
SECTION 3: Gene	ral Description of th	e Waste		
Name of Waste: Di Detailed Description		ting Waste: Off-Spec u	ın-used product	
Physical State:	□ Liquid     □ Solid	Sludge Filter Cake	☐ Powder ☐ Combination	ı
Color: light yellow		Odor: <u>Ester</u>		
Specific Gravity (w	ater=1): <u>.96</u>	Density: 8 lbs/gal		
Layers:	Single-phase	☐ Multi-pha	ase	••
Ć	N D	□ <b>7</b> -4-	[	
Container Type:	⊠ Drum	∐ Tote	☐ Truck	Other (explain)
Container Size:	<u>55</u>			
Frequency:	☐ Weekly	☐ Monthly	Quarterly	☐ Yearly
Number of Units (co	•	Other:	∠ Quarterly	in I carry
,	· —		-	
Texas State Waste	Code No: N	A-Recyclable Material		
Proper U.S. DOT S	hipping Name:	Flammable liqui	ds, n.o.s., 3, UN 1993,	PG-II
Class: 3	UN/N	IA: UN 1993	PG: II	RQ: coalbate luev
Flash Point	pH	Reactive Sulfides	Reactive Cy	anides Solids
65	NA NA	Omg/I	Omg/l	0%
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	Omg/I	Ome/I	Omg/I

#### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The wasteronsists of the following materials			Concentration Ranges are acceptable	Units or %
2-Ethylhexyl nitrate		(A) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	 45-55	%
Toluene	- Andrews - Contractor		 45-55	%
			 	±
	<u>. 4 </u>	4	 	
		- <del>1</del>		#

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level  $\ensuremath{\mathsf{C}}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
<b>TCLP Volatiles:</b>	$\overline{\mathbf{x}}$
<b>TCLP Semi-Volatiles:</b>	$\overline{\mathbf{x}}$
Reactivity:	X
Corrosivity:	X
Ignitability:	X

#### **SECTION 9: Generator's Certification**

The information contained herein is based on $\boxtimes$ generator knowledge and/or $\square$ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials
Authorized Signature: Date: 49/3007
Authorized Signature: Styline Toly  Printed Name/Title: Dewaine Kay Environmental Specialist  Devaine Kay Environmental Specialist
Printed Name/Title: Dévaine Ray / Environmental Spécialist
CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer: Robbank Day Additional Information: 50 /10-29
Date: 10-10-07 Approved Rejected Trans 70 /Hr +F50
Approval Number: 2465 REC

#### Is this material a wastewater or wastewater sludge? YES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excellent of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium,	copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.	

☐ Metals Subcategory

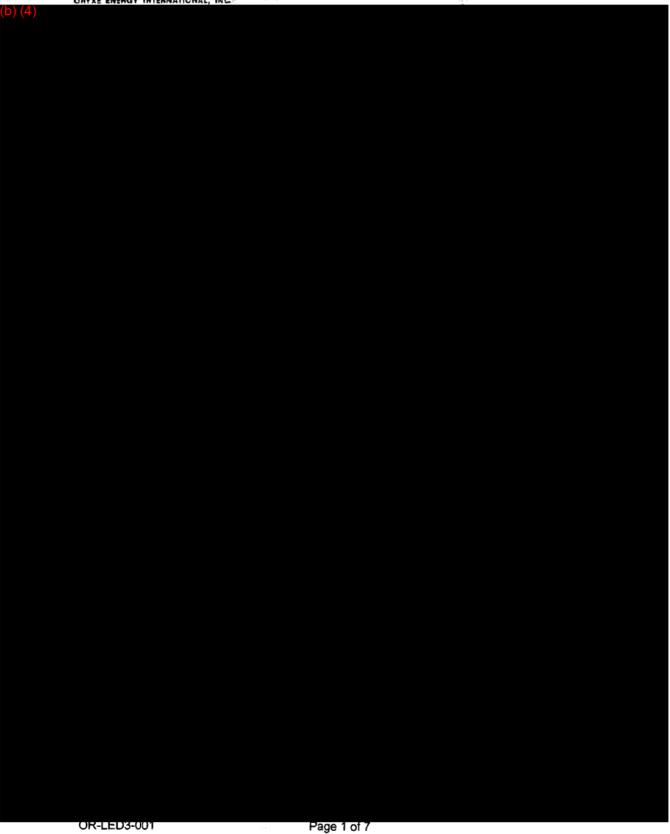
Oils Subcategory

Organics Subcategory

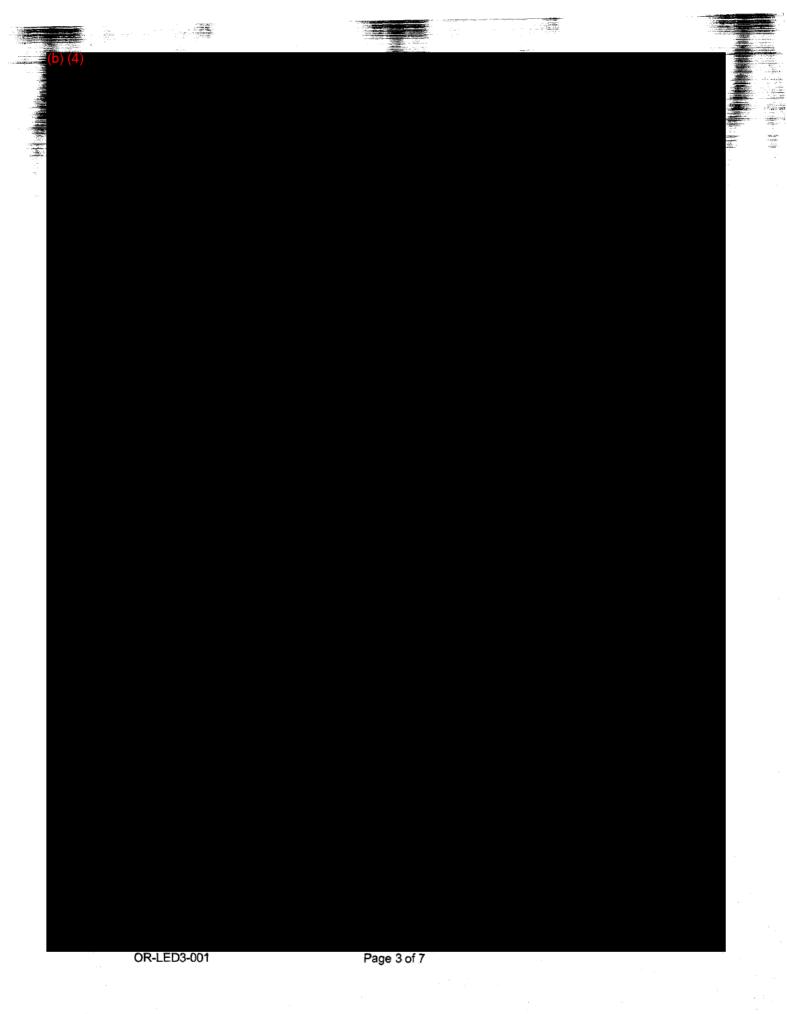
#### **SECTION 11: Additional Instructions**

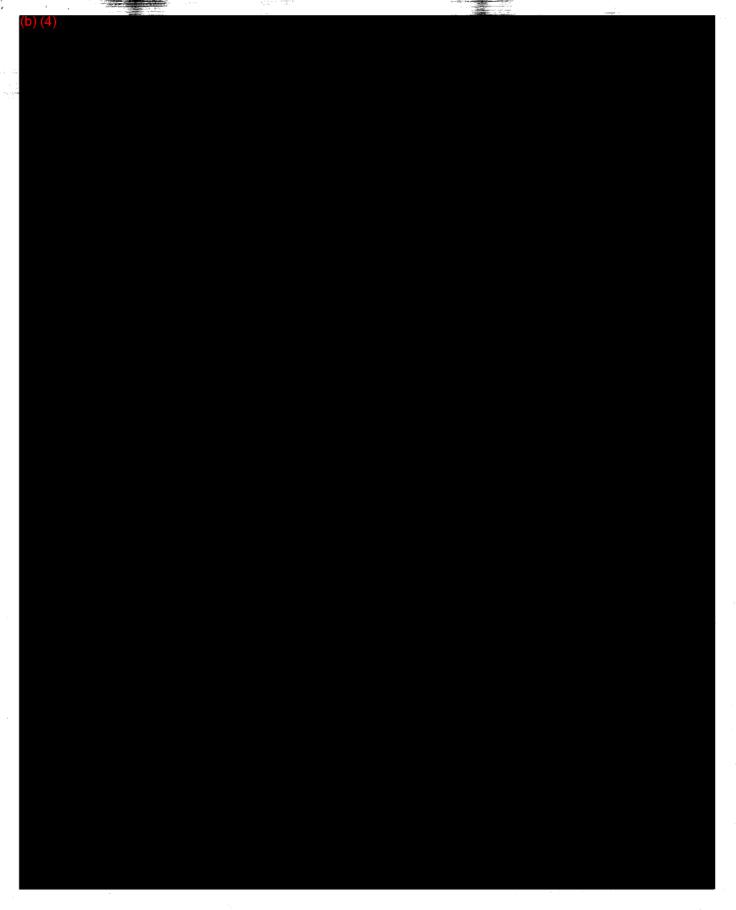
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.









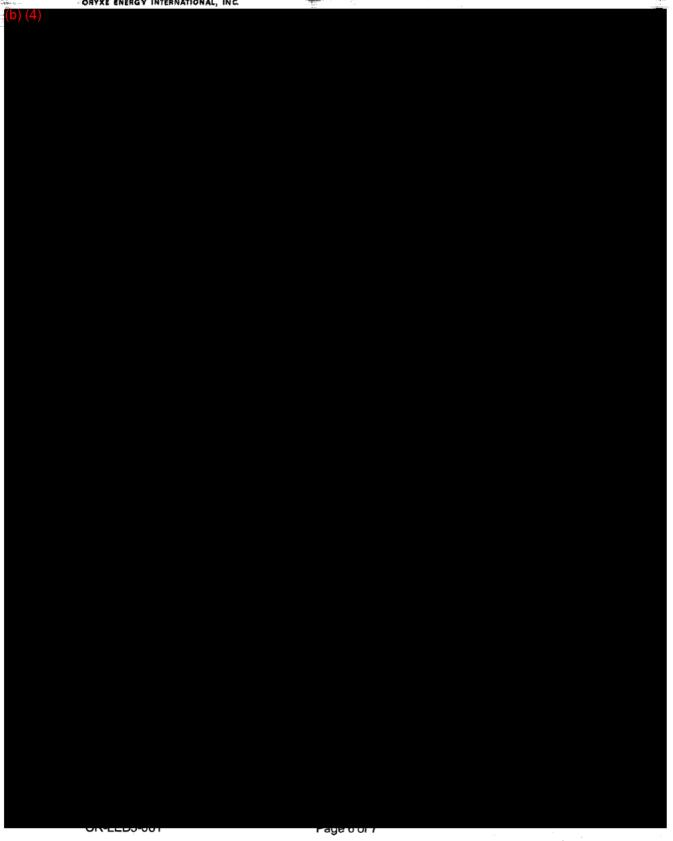


OR-LED3-001

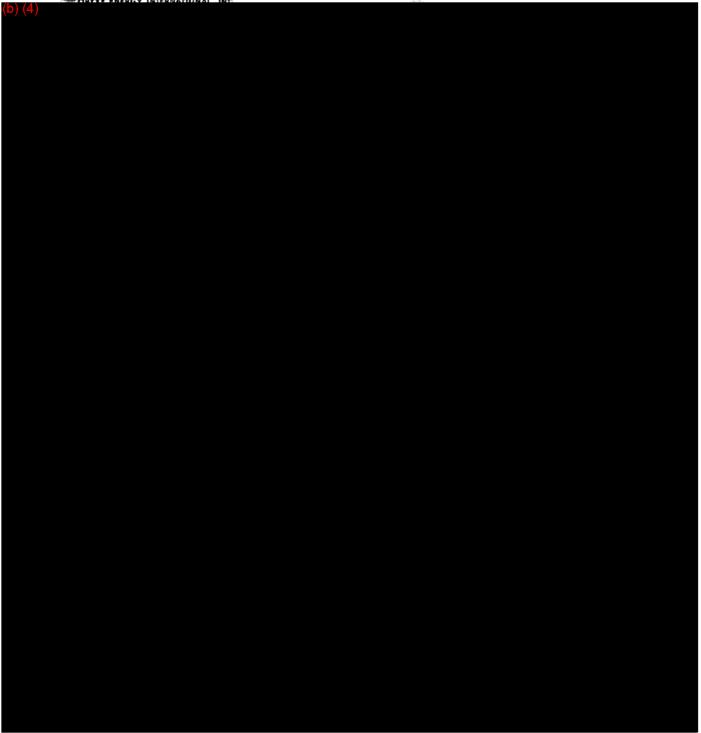








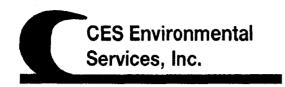






## Sample Evaluation Form

Date 6 128107 Sample ID # Please Complete This Section Generator / Customer Name: Name or Type of Waste: ixs sungle 19 Process Generating Waste: Number of Samples: Submitted By: Analysis To Be Completed: **Turnaround Time:** Other: (Lab Use Only) Sample Results : SG 0.96 ~ 0.92 (brown) Suggested Method of Treatment: MIX WITH CES GASOLINE TANK Suggested Price Range : \_ Sample Results Reported to \_\_\_\_\_\_\_\_\_\_\_\_ Test Completed By: 60 de 17 Date: 06 1 30 10 Time:



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 11/30/2007

Dear Ruben Fernandez

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2400

Expiration Date 12/6/2009

Generator: Dana Container
Address: 902 Sens Road

La Porte, TX 77572

**Waste Information** 

Name of Waste: Plant Trash TCEQ Waste Code #: 22249992

**Container Type:** 

cy box

**Detailed Description of Process Generating Waste:** 

Trash from around the plant

Color: varies

Odor: none

pH: na

**Physical State:** 

**Incompatibilities:** none known

Safety Related Data/Special Handling:

none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information			
Company:	DANK CONT	NUER		
Address:	902 Sens	ed		
City, State, Zip:	Laperte, TY	C 77572		
Contact:	Rules Fena	/ .	Title:	Phonece
Phone No:	281-471-	4700	Fax No:	
24/hr Phone:			•	
U.S. EPA I.D. No:	TXR 0000	111.55	•	
State I.D.	41563		SIC Code:	
SECTION 2: Billin Company: Address: City, State, Zip:				
Contact:		Title:	`	
Phone No:		Fax No:		
SECTION 3: Gener Name of Waste: P Detailed Description		e Waste ting Waste: Task &	u cro	ind the plant
Physical State:	□ Liquid  X Solid	☐ Sludge ☐ ☐ Filter Cake ☐	Powder Combination	ก
Color: Varies	(	Odor: <u>Nan</u> e		
Specific Gravity (wa	ter=1): <u>~</u>	Density: <u>~4</u> lbs/gal		
Layers:	Single-phase	☐ Multi-phase		
Container Type: Container Size:	□ Drum ———	Tote	Truck	Other (explain)
Eugananava	☐ Weekly	Monthly	Ouantania	□ Voorby
Frequency:	_ ~	<i>,</i>	Quarterly	Yearly
Number of Units (co	· ———	Other:		
Texas State Waste C	ode No: 7	22240992		
Proper U.S. DOT Sh	ipping Name:	Now Dot Reg.	ulated A	naterial
Class:	UN/N	A:	PG:	RQ:
			<del></del>	
	T			
Flash Point	N/A	Reactive Sulfides	Reactive C	
<u> </u>		MA mg/l	Comment	
Oil&Grease	TOC		Copper んか <sub>mg/l</sub>	Nickel  // fl_mg/l
<u> ∧A</u> mg/l	<u>∧ ∱</u> mg/l	<u>~~</u> mg/l	<u>~~/~</u> mg/i	/ * /1 _mg/1

#### **SECTION 4: Physical and Chemical Data**

		COMPONENTS TABLE	Concentration	Units
		te consists of the following materials	Ranges are acceptable	or %
General	Plant	Trash	10-	20

SECTION 5: Safety Related Dat	SE	CTI	ON 5:	Safety	Related	Data
-------------------------------	----	-----	-------	--------	---------	------

If the handling of this waste requires the use of special protective equipment, please explain.

Nave Known

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

Nove

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	_X_
TCLP Volatiles:	_X
TCLP Semi-Volatiles:	_X_
Reactivity:	<u>×</u>
Corrosivity:	X
Ignitability:	×

SECTION 9: Generator's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	my M	<u></u>	Date: 12/6/07
	my Gildon	, Plant M	langer_

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer. 7701 110	Check with Roan Is
Date. 12001	pricing and
Approval Number: 2400	Trans \$350; Disposed \$10/4d; Redirect to BFI as class 2 Solids

<u>SI</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 437
İs	this material a wastewater or wastewater sludge?   YES  NO
lf	'Yes', complete this section.
PI	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	uls Subcategory: Subpart A
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment
Oils .	Subcategory: Subpart B
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes
<u>Organ</u>	nics Subcategory: Subpart C
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in exces values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L l: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

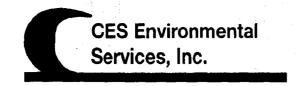
#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

2401

Vetco GRL24 # 2401

EPAHO107001774



## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Dustin Cambell

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile# 2401

Generator: Vetco Gray

Address: 12221 N. Houston Rosslyn

Houston, TX 77086

#### Waste Information

Name of Waste: RCRA empty drums

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Used to store various products

Color: varies

Odor: none

pH: na

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene						
Company:	Vetco Gray Inc.	D				
Address:	12221 N. Houston		<del> </del>			<del></del>
City, State, Zip: Contact:	Houston, TX 770		Title:	HSE Coor	dinator	
Phone No:	Dustin Campbell 281-847-4644	·	Fax No:	281-405-5		
24/hr Phone:	201-04/-4044		rax No.	201-403-3	077	
U.S. EPA I.D. No:	TXD060720505					
State I.D.	30299		SIC Code:	NA		
State I.D.	302))		SIC Code.			· ·
SECTION 2. Billin	g Information – 🔀 :	Same as Ahove				
Company:	2 Information - gy	Jame as Above				
Address:		<u> </u>		<del>-,</del>		
City, State, Zip:				····		
Contact:		Title:				
Phone No:		Fax No:				
_			<u>-</u>			
SECTION 3: Gene	ral Description of th	e Waste				•• .
SECTIONS: GUIL	tal Description of th	<del>C YY dot</del>				
Name of Waste: RC	CRA Empty Drums					
		ing Waste: Used to store var	ious products			
•						
Physical State:	☐ Liquid	☐ Sludge ☐	Powder			***
•	⊠ Solid	☐ Filter Cake ☐	Combinatio	n		
Color: varies		Odor: none				
<del></del>						
Specific Gravity (wa	nter=1): NA	Density: NA lbs/gal				
Specific Gravity (	<u> </u>	Denotoj v <u>1.121</u> losi gaz				
Layers:	Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Single-phase     ■ Sing	☐ Multi-phase				
Layers.	⊠ Single-phase	wint-phase				
Comtoin as True	D	□ Toto □	Tunals	$\boxtimes$	Other (evolein)	
Container Type:	⊠ Drum	∐ Tote ∐	Truck		Other (explain)	
Container Size:	<u>55 gal</u>	<del></del>			boxes	
		.25			· · · · · · · · · · · · · · · · · · ·	
Frequency:	Weekly	☐ Monthly 🛛	Quarterly	П	Yearly	
Number of Units (co	,	Other:	. ,		·	
,	· —	<del></del>				
Texas State Waste (	ode No: Re	ecyclable				
Proper U.S. DOT SI	ipping Name:	Non RCRA Non DOT	Regulated Ma	terial		
Class: NA	UN/N	A: NA	PG: NA	1	RQ: NA	<del></del>
Class. IVA	ONT	A. VENA	10. TV	~	. IQ. 9.1111	
Flash Point	pH	Reactive Sulfides	Reactive C	vanides	Solids	···-
NA:	NA	NAmg/I	NAmg/I	,	100%	
Oil&Grease	<del></del>		Copper	Nic	kel	
NAmg/l		NAmg/I	NAmg/I		mg/l	
					1-125	

#### **SECTION 4: Physical and Chemical Data**

	COMPONENTS TABLE The waste consists of the following	materials	Concentration Ranges are acceptable	
Empty Drums			100	%
		·		
		<del></del>		
·				

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

None

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	$\underline{\mathbf{X}}$
TCLP Volatiles:	$\mathbf{X}$
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	$\mathbf{X}$
Corrosivity:	$\mathbf{X}$
Ignitability:	$\underline{\mathbf{X}}$

#### **SECTION 9: Generator's Certification**

The information contained herein is based on 🖂 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and
attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials
tested are representative of all materials described by this document.
$\Delta$ / $I$ $\tilde{\Delta}$

Authorized Signature: \_\_\_\_\_\_ Date: \_\_\_\_\_\_
Printed Name/Title: No Signature Required

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robins My a	Process Facility Information: \$10.00 dm (\$3.00-trans \$7.00 rec)
Date: $10 - 4 - 07$ Approved Rejected	ent entre
Approval Number: 2401	

<u>51</u>	ECTION 10: Waste Receipt Classification Under 40 CFR	437		
Is	this material a wastewater or wastewater sludge?   YES	⊠ NO	e Vil	
If	'Yes', complete this section.			
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRIATE CAT	EGORY, GO TO T	HE NEXT PAGE.
<u>Met</u>	als Subcategory: Subpart A			
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equi		phosphating operatio	ons
<u>Oils</u>	Subcategory: Subpart B			
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum source Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	S		
<u>Orga</u>	inics Subcategory: Subpart C			
	Landfill leachate Contaminated groundwater clean-up from non-petroleum so Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol	burces		
	Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	· · · · · · · · · · · · · · · · · · ·		

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste	should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the values listed below, the waste should be classified in the metals sub-	
	Chror Copp	nium: 0.2 mg/L mium: 8.9 mg/L er: 4.9 mg/L el: 37.5 mg/L	
(3)		waste contains oil and grease less than 100 mg/L, and does not have l above any of the values listed above, the waste should be classified	
		Metals Subcategory	
		Oils Subcategory	
		Organics Subcategory	unione de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya della companya della companya de la companya de la companya della companya

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Dal-Tile # 2402

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## **Material / Product Approval Letter**

Date 9/30/2007

Dear charles

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2402

Producer: Dal-Tile

Address: 10399 Silver Springs Road

Conroe, TX 77305

#### Material / Product Information

Name of Material / Product Unused 50% sodium hydroxide solution Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Unused product

Color: clear

Odor: none

**pH**: 14

**Physical State:** 

Incompatibilities: acid, water

Safety Related Data/Special Handling:

Corrosive - caustic suite

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	rial Producer Information			
Company:	Dal Tile			
Address:	10399 Silver Springs Rd			
City, State, Zip:	Conroe, TX 77305			
Contact:	Linda Mullins/Patty White	Title:		
Phone No:	936-856-5555	Fax No:	936-856-4023	
24/hr Phone:	936-856-5555			<del></del>
U.S. EPA I.D. No:	TXD982561854	-		
State I.D.	38703	SIC Code:	. ι . Δ	Te P
State I.D.	30703	. Sie couc.		
SECTION 2. Billing	g Information – Same as Above			
	No Charge			and the second
Address:	140 Charge			·
				<del></del>
City, State, Zip:	T:41			
Contact:	Title:			
Phone No:	Fax No:			
SECTION 2. C.	al Description of the Material / Duadwet			
SECTION 3: Gener	al Description of the Material / Product			
Name of Material / I	Product: Unused 50% Sodium Hydroxide Solutio	n		
	of Process Generating or Producing the Mater		Unused Product	
Detailed Description	of Frocess Generating of Froducing the Mater	iai / Fiouuci.	Ollused Floduct	
Dhysical States	☑ Liquid ☐ Cludge ☐	Powder		
Physical State:	☐ Liquid ☐ Sludge ☐			
	Solid Filter Cake	] Combination	n	
	\			
Color: Clear	Odor: Norl			
Specific Gravity (wa	ter=1): <u>1-1.5</u> Density: <u>11-13</u> lbs/gal			
Layers:	⊠ Single-phase ☐ Multi-phase			
Layers.	Za Single-phase			
Cantainan Tunas	☐ Drum ☐ Tote ☒	Two	Other (evaluin)	
Container Type:	☐ Drum ☐ Tote 🖂	Truck	Other (explain)	
Container Size:		<u>2200G</u>	· ·	
			%.	
Frequency:	☐ Weekly ☐ Monthly ☐	Quarterly	Yearly	
	_ • - • • • • • • • • • • • • • • • • •	Quarterry	Z Tearry	
Number of Units (co	ntainers): 1 Other:			
	modud			
Proper U.S. DOT Sh		lution		
			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
Class: 8	UN/NA: 1830	PG: II	RQ:	A
-				145.1
Die I Dei 4		DY/A	C.P.A.	
Flash Point	pH N/A	N/A	Solids	ing ga <del>nagal</del> ar, and a
Na Sun G	<u>-214</u>		<u>(-)</u> %	San Angelon San
Oil&Grease	TOC Zinc	Copper	Nickel	
<u>O</u> mg/l	Omg/l Omg/l	<u>O</u> mg/l	Omg/l	
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s			: <u></u>	70d

#### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE  The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	50	%
Sodium Hydroxide	50	%
	}	1

<b>SECTION</b>	5:	Safety	Related	Data

If the handling of this material / product	requires the use	of special pro	tective equipment, please explain
Corrosive-Appropriate PPE-PH 14	Cawthic	Suite	

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. <u>MSDS Sheets</u>

#### **SECTION 7: Incompatibilities**

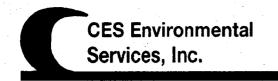
Please list all incompatibilities (if any): Acids, water

#### **SECTION 8: Material Producer's Certification**

The information contained herein is attached description is complete an			•
omissions of composition properties tested are representative of all materi	exist and that all known or suspec	•	
Authorized Signature:	NIA -	Date: 10/04/07	<u>7</u>

Printed Name/Title: No Signatur Required	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Technical Manager: Polygon Approved Rejected  Approval Number: 2402	Process Facility Information: N&CHarge  Get With Marlin
a <sup>*</sup>	<del>वा</del> ः

Nottex # 240



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Control Room

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2403

Generator: Noltex

Address: 12220 Strang Road (Attn: Randy Boeding)

La Porte, TX 77571

Waste Information

Name of Waste: Flourescent light bulbs

TCEQ Waste Code #: UNIV

Container Type: box

**Detailed Description of Process Generating Waste:** 

Used flourescent light bulbs

Color: varies

Odor: none

pH: na

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



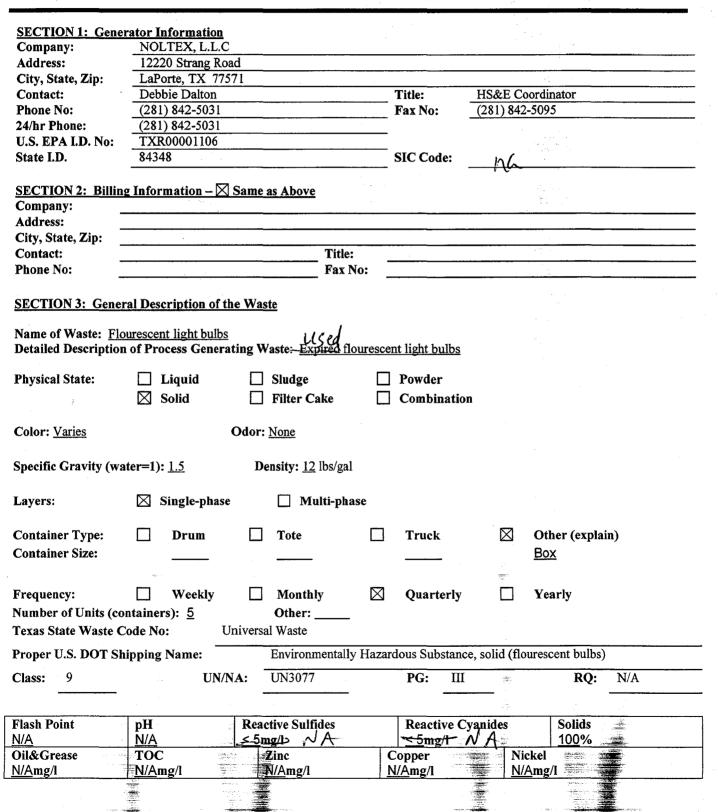
4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

1460 Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900



#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials		Concentration Ranges are acceptable	Units or %	
Flourescent Light Bulbs			100	%
		:		
			. :	

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.  $\underline{\text{None}}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

None

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

X-Universal Waste

**TCLP Volatiles:** 

X-Universal Waste

TCLP Semi-Volatiles:

X-Universal Waste

Reactivity:

X-Universal Waste

Corrosivity:

X-Universal Waste

Ignitability:

X-Universal Waste

#### **SECTION 9: Generator's Certification**

The information contained herein is based on 🗵 generator knowledge and/or 🔲 analytical data. I hereby certify that the above an	ıd
attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful	al
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the material	ls
tested are representative of all materials described by this document.	

Authorized Signature: JM Bowl	Date: 9/20/07
Printed Name/Title: RANDY BUEDING - SENIOLVP	

CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Approved Rejected	Additional Information: \$\\ \partial \text{POS}  \text{rate}\$	e Sheet
Approval Number: 2403	Rougele	erre e

SE	CTION 10: Waste Receipt Classificat	tion Under 40 CFR	<u> 137</u>		
Is	this material a wastewater or wastewater	sludge?  YES	⊠ NO		
If	Yes', complete this section.				
PL	EASE CHECK THE APPROPRIATE	BOX. IF NO APPRO	OPRIATE CATE	GORY, GO TO THE	E NEXT PAGE.
<u>Meta</u>	ls Subcategory: Subpart A				
	Spent electroplating baths and/or sludge Metal finishing rinse water and sludge. Chromate wastes Air pollution control blow down water Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater that Waste acids and bases with or without Cleaning, rinsing, and surface preparat Vibratory deburring wastewater	s and sludges n 136 mg/l metals	ectroplating or pho	osphating operations	
	Alkaline and acid solutions used to cle	an metal parts or equ	ipment		
Oils S	Subcategory: Subpart B				
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up fr Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sou Interceptor wastes Off-specification fuels Underground storage remediation wast Tank clean-out from petroleum or oily Non-contact used glycols Aqueous and oil mixtures from parts cl Wastewater from oil bearing paint was	rces re sources leaning operations	s		
<u>Organ</u>	nics Subcategory: Subpart C				
	Landfill leachate Contaminated groundwater clean-up fr Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epo Wastewater from organic chemical pro Tank clean-out from organic, non-petro	xies formulation duct operations	ources		

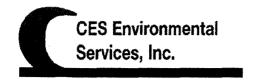
(1)	If the waste contains oil and grease at	or in excess of 100 mg/L, the waste s	hould be classified in the oils subcate	egory.
(2)	If the waste contains oil and grease les of the values listed below, the waste sl			ons in exces
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L			
(3)	If the waste contains oil and grease les nickel above any of the values listed a			m, copper, o
	☐ Metals Subcategory			

#### **SECTION 11: Additional Instructions**

Oils Subcategory

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

#### **Waste Profile Re-Certification Form**

CES	Waste	Approval	#:	<u>-2403</u>
-----	-------	----------	----	--------------

Customer:

**Noltex** 

Waste Generator:

**Noitex** 

Waste Stream Name:

Flourescent light bulbs

**Expiration Date:** 

10/5/2009

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

No changes, please recertify.

Please send new profile as waste stream has changed.

Customer

Customername

Company/ Title

Date

Analysis is NOT required for recertification.

The following analysis is required for recertification. Please sumbit results of the following tests.

**TCLP Metals** 

TCLP Volatiles

TCLP Semi-volatiles

Reactivity

Corrosivity

Ignitability

Noltex #2404

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Control Room

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2404

Generator: Noltex

Address: 12220 Strang Road (Attn: Randy Boeding)

La Porte, TX 77571

Waste Information

Name of Waste: Electronic waste TCEQ Waste Code #: UNIV320H

**Container Type:** 

pallet

**Detailed Description of Process Generating Waste:** 

Out dated, non functional electronic waste

Color: various

Odor: none

pH: na

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

### **CES Environmental** Services, Inc.

4904 Griggs Road

Houston, TX 77021 Fax: (713) 676-1676

Phone: (713) 676-1460 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 **ISWR No: 30900** 

U.S. EPA ID No: TXD008950461



SECTION 1: Generator Information	
Company: Noltex	
Address: 12220 Strang Road	
City, State, Zip: La Porte, TX 77571	·· · · · · · · · · · · · · · · · · · ·
Control Room Title:	*** *** ***
Phone No: 281-842-5035 Fax No: 281-842-5095	
24/hr Phone:	<del></del>
IIS EPAID No. TYROGOULIOG	
State I.D. 84348 SIC Code: NA	
SECTION 2: Billing Information – Same as Above	
Company:	
Address:	·
City, State, Zip:	
Contact: Title:	
Phone No: Fax No:	
SECTION 3: General Description of the Waste	
	•
Name of Waste: Electronic Waste  Detailed Description of Process Generating Waste: out-dated, non-functional electronic waste	`.
Physical State:	
Solid Filter Cake Combination	
Color: various Odor: n/a	
Specific Gravity (water=1): na Density: n/a lbs/gal	
Layers:   Single-phase   Multi-phase	
Container Type:	1)
Container Size: pallet	
Frequency:	
requercy weekly wanterly really	
Number of Units (containers): n/a / Other:	
Texas State Waste Code No: UNIV320H	
Proper U.S. DOT Shipping Name: Environmentally hazardous substance, solid, n.o.s. 9, UN3077	
Class: 9 UN/NA: UN3077 PG: III RQ:	n/a
en en en en en en en en en en en en en e	
Flash Point pH Reactive Sulfides Reactive Cyanides Solids	er er
$\geq 200 \ \text{PA}$ $\frac{\text{n/a}}{\text{n/a}}$ $\frac{\text{0mg/l}}{\text{mg/l}}$	5 1778 2 1,2.1 2227
Oil&Grease TOC Zinc Copper Nickel	
$<4500 \text{mg/l}$ $\sqrt{A}$ $  \leq 1500 \text{mg/l}$ $  \leq 1500 \text{mg/l}$ $  \leq 1500 \text{mg/l}$	***************************************

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials	Concentration Ranges are acceptable	
electronic equipment, broken, or out-dated	100	1/2

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.  $\underline{\text{level }D}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.  $\underline{n/a}$ 

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): n/a

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	2
TCLP Volatiles:	2
TCLP Semi-Volatiles:	2
Reactivity:	2
Corrosivity:	2
Ignitability:	2

#### **SECTION 9: Generator's Certification**

SECTION 9. Generator & Certification
The information contained herein is based on 🖾 generator knowledge and/or 🗀 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials
tested are representative of all materials described by this document.
Authorized Signature: Date: 4/20/07
Printed Name/Title: RANDY BOEDING - SKVP

Tipeds  'T	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robben May	Process Facility Information: \$75 / minorwave & + trans + fsc
Date: $10-4-07$ (Approved) Rejected	4.
Approval Number: 2404	UNIV

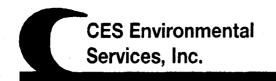
<u>S</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 4	<u>137</u>	:	
Is	this material a wastewater or wastewater sludge?   YES	⊠ NO		y *
If	'Yes', complete this section.	-		
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRIATE CAT	EGORY, GO TO	THE NEXT PAGE.
<u>Met</u>	als Subcategory: Subpart A			
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equi		hosphating opera	ations
<u>Oils</u>	Subcategory: Subpart B	te or		
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes			
<u>Orga</u>	nics Subcategory: Subpart C			1 5 3
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sor Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation	urces		
	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	7707		

(1)	If the	waste contains oil and greas	se at or in excess of 100 mg/L, the was	ste should be classified i	n the oils subcategory.
(2)		_	se less than 100 mg/L, and has any of ste should be classified in the metals s	· · · · · · · · · · · · · · · · · · ·	w in concentrations in excess
	Chroi Copp	nium: 0.2 mg/L mium: 8.9 mg/L er: 4.9 mg/L el: 37.5 mg/L			
(3)		•	se less than 100 mg/L, and does not ha ted above, the waste should be classifi		· -
		Metals Subcategory			
		Oils Subcategory			

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

24 Optional Oil Well (South)



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Larry Pruitt

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2405

Generator: National Oilwell (South Yard)

**Address:** 9600 Clinton Drive

Houston, TX 77029

#### Waste Information

Name of Waste: Empty containers TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Empty product drums and totes

Color: various

Odor: none

pH: na

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676 23

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	erator Information				
Company:		Varco (Galena Park-South Y	ard)		
Address:	9600 Clinton Driv			·	
City, State, Zip:	Houston, TX 770				
Contact:	Larry Pruitt		Title:	EH & S N	lanager
Phone No:	713-356-7200		Fax No:	713-356-7	
24/hr Phone:	CES-713-676-146	50			
U.S. EPA I.D. No:	CESQG		<del></del>		
State I.D.	CESQG		SIC Code:		
State MD.	-02040				
SECTION 2: Billin	g Information _ 🗍	Same as A hove			
Company:	National Oilwell Va				49 · .
Address:	P.O. Box 472	210 Magnolia	···		
City, State, Zip:	Galena Park, TX 7				
		Title:	EU & C Mon	0.00	
Contact:	Larry Pruitt		EH & S Man:		
Phone No:	713-356-7200	Fax No:	713-356-7402		<del></del>
SECTION 3: Gene	ral Description of th	<u>ie Waste</u>			
					e e
Name of Waste: Er					
Detailed Description	n of Process Genera	ting Waste: Empty Produc	t drums and totes		
Physical State:	☐ Liquid	Sludge	□ Powder		
	Solid	Filter Cake	☐ Combination	n	
Color: various		Odor: none			
		<del></del>			
Specific Gravity (wa	ater=1): 1 2	Density: 10 lbs/gal			
Speeme Gravity ("	uter 1). <u>1.2</u>	Density: <u>10</u> 105/gai			
T	<b>⊠</b> C:	700-145 mb			
Layers:	Single-phase	☐ Multi-phase			
	F3		· 	_	
Container Type:	🛛 Drum	⊠ Tote [	Truck		Other (explain)
Container Size:	<u>55 gal</u>	<u>300 g</u>			
_	·		<b>-</b>	,	
Frequency:	☐ Weekly	☐ Monthly	<b>◯</b> Quarterly		Yearly
Number of Units (co	ontainers): <u>5</u>	Other:			
Texas State Waste (	Code No: N	A-Recyclable Material			
n ranoma	-		OT D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Proper U.S. DOT S	hipping Name:	Non-RCRA; Non-D	OT Regulated M	aterial	
Class: NA	un/N	IA: NA	PG: NA	<b>A</b>	RQ: NA
	1.				
Flash Point	pH	Reactive Sulfides	Reactive C	vanides	Solids
> COU NA	NA -	Omg/l	Omg/l	y annues	100%
Oil&Grease	TOC	Zine	Copper	Nic	
NAmg/I	NAmg/I	Omg/I	Omg/I	Om	

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials	Concentration  Ranges are acceptable	Units or %	
Empty Metal Drums	0-100	%	
Empty Poly Drums	0-100	%	
Empty Totes	0-100	%	

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level  $\underline{D}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): none

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	<u>&gt;</u>
TCLP Semi-Volatiles:	<u> </u>
Reactivity:	Σ
Corrosivity:	<u>X</u>
Ignitability:	X

#### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

tested are representa	itive of all mater	ials described t	by this docum	ent.				
Authorized Signatu	ıre: <u>/////</u>				Date:	K/3/07		
Printed Name/Title	: <u>HSE</u>							
<del>ए</del> क १				7. P. C.				
CES USE ONLY (DO N		IIS SPACE)			<del> </del>			
Compliance Officer	: Pralie	Polan	_a	Additional Inf	formation: _	10 01/	Den 50	@/yc/e
Date: 10-4-	07	Approved	Rejected	Tran	s <i>)0</i>	0/140	+ FSC	
Approval Number:	2405				1771	* 3		
				1 g/s	44.			
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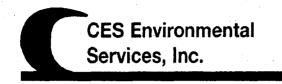
50	CTION 10: Waste Receipt Classification Under 40 CFR 4	<u>157</u>	
Is	this material a wastewater or wastewater sludge?   YES	⊠ NO	• •
If	'Yes', complete this section.		
PI	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRIATE CATEGORY, GO	O THE NEXT PAGE.
Meta	als Subcategory: Subpart A		
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equi		erations
Oils .	Subcategory: Subpart B		
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum source: Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	S	
<u>Orga</u>	nics Subcategory: Subpart C		
	Landfill leachate Contaminated groundwater clean-up from non-petroleum so Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	urces	

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L	, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and ha values listed below, the waste should be classified in the	as any of the pollutants listed below in concentrations in exceed metals subcategory.
	Chron Coppe	nium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L d: 37.5 mg/L	
(3)		waste contains oil and grease less than 100 mg/L, and do above any of the values listed above, the waste should b	bes not have concentrations of cadmium, chromium, copper, one classified in the organics subcategory.
		Metals Subcategory	
		Oils Subcategory	
		Organics Subcategory	

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Calpine Baytown 240



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Accounts Payable

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2406

Generator: Calpine Baytown Energy Center

**Address:** 8605 FM 1405

Baytown, TX 77520

#### Waste Information

Name of Waste: Non hazardous wastewater

**TCEQ Waste Code #:** 00061132

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Neutralized unused sulfuric acid 93%. Acid was spilled in a concrete covered containme when the storage unit (poly tank) cracked. Solution was neutrlized with soda ash.

**Color:** light brown to milky

Odor: mild

**pH**: 3-10

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

SWC BILLING DEPT

SEP-26-2007 19:45

CES Environmental Service

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4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gen Company:				
<del></del> - · · · · J ·	Baytown Energy (	Center - Calpine	·	·
Address:	8605 FM 1405			
City, State, Zip:	Baytown, TX 775	20		
Contact:	Rick Damon		Title:	
Phone No:	281-303-4216		Fax No:	281-303-4299
24/hr Phone:	281-303-4216			
U.S. EPA LD. No:	TXR000043976			NX
State I.D.	86845		SIC Code:	NY
SECTION 2: Billi	ng Information - 🗀 :	Same as Above		
Company:	Baytown2-COSCI-B			
Address:	Mailstop 1BY01-1B	YOM-PO Box 6840		
City, State, Zip:	Folsom, CA 95763-6		<del></del>	
Contact:	Accounts Payable	Title:		
Phone No:	Same	Fax No:	Same	
g prosta ( to)				
SECTION 3: Gen	eral Description of th	e Waste		
Detailed Description				id 93%. Acid was spilled in a concrete, zed with soda ash.
Physical State:	🛛 Liquid	☐ Sludge	Powder	
I Myotour Com-	□ Solid	Filter Cake	☐ Combinatio	
	El Solid	L FIREF CHICE	<b>— сощинаци</b>	JU.
Color: light brown	o milky	Odor: <u>Mild</u>		
Specific Gravity (w	ater=1): <u>1-1.2</u>	Density: <u>8-9</u> lbs/gal		
Layers:	Single-phase	☐ Multì-phase		
•	⊠ Single-phase			
Layers: Container Type:	Single-phase		∑ Truck	Other (explain)
•			∑ Truck 2-4000	Other (explain)
Container Type:			<del>_</del>	Other (explain)
Container Type: Container Size:	Drum	Tote	2-4000	
Container Type: Container Size: Frequency:	□ Drum □ Weekly	☐ Tote ☐ ☐ Monthly	<del>_</del>	
Container Type: Container Size: Frequency: Number of Units (c	Drum  Weekly ontainers): 1	Tote	2-4000	
Container Type: Container Size: Frequency: Number of Units (c	Drum  Weekly ontainers); 1	☐ Tote ☐ ☐ Monthly	2-4000	
Container Type: Container Size: Frequency: Number of Units (c	☐ Drum ☐ Weekly ontainers); 1 Code No; 00	Tote  Monthly Other:	2-4000  Quarterly	☐ Yearly
Container Type: Container Size: Frequency: Number of Units (container State Waste Proper U.S. DOT S	Drum  Weekly outainers): 1 Code No: 00 hipping Name:	Tote	2-4000  Quarterly  OOT Regulated W	Yearly  /aste Water
Container Type: Container Size: Frequency: Number of Units (c	☐ Drum ☐ Weekly ontainers); 1 Code No; 00	Tote	2-4000  Quarterly	Yearly  /aste Water
Container Type: Container Size: Frequency: Number of Units (c Texas State Waste Proper U.S. DOT S Class: Na	☐ Drum ☐ Weekly ontainers): 1 Code No: 00 hipping Name: UN/N	Tote  Monthly Other:  Non-RCRA, Non-D A: Na	2-4000  Quarterly  OOT Regulated W	Yearly  /astc Water a RQ: Na
Container Type: Container Size: Frequency: Number of Units (c Texas State Waste Proper U.S. DOT S Class: Na Flash Point	□ Drum □ Weekly ontainers): 1 Code No: 00 hipping Name: UN/N	Tote  Monthly Other:  Non-RCRA, Non-D A: Na  Reactive Sulfides	2-4000  Quarterly  OOT Regulated W  PG: N  Reactive 0	Yearly  /astc Water a RQ: Na  Cynnides Solids
Container Type: Container Size: Frequency: Number of Units (c Texas State Waste Proper U.S. DOT S Class: Na Flash Point Na	□ Drum □ Weekly outainers): 1 Code No: 00 hipping Name: UN/N  pH 3-10	☐ Tote ☐ Monthly Other:  Non-RCRA, Non-D A: Na  Reactive Sulfides Omg/1	2-4000  Quarterly  OOT Regulated W  PG: N  Reactive O	Yearly  /astc Water a RQ: Na  Cynnides Solids 0-5%
Container Type: Container Size: Frequency: Number of Units (c Texas State Waste Proper U.S. DOT S Class: Na Flash Point	□ Drum □ Weekly ontainers): 1 Code No: 00 hipping Name: UN/N	Tote  Monthly Other:  Non-RCRA, Non-D A: Na  Reactive Sulfides	2-4000  Quarterly  OOT Regulated W  PG: N  Reactive 0	Yearly  /astc Water a RQ: Na  Cynnides Solids

713 676 1676

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SEP-26-2007 18:45

CES Environmental Service

#### SECTION 4: Physical and Chemical Data

CONFONERESTABLE	Concentration	Units	
The waste consists of the following materials	Ranges are acceptable	or %	
Water	80-90	%	
Sulfuric Acid (Neutralized, Unused)	5-10	%	
Soda Ash	5-10	%	
Salts from neutralization	2-5	%	

#### SECTION 5: Safety Rolated Data

If the handling of this waste requires the use of special protective equipment, please explain. Level D PPE

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None Needs

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

None

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:

TCLP Volatiles:

TCLP Semi-Volatiles:

Reactivity:

Corrosivity:

Ignitability:

#### SECTION 9: Generator's Certification

The information contained herein is based on 🗵 generator knowledge and/or 🔲 analytical data. I hereby certify that the above and
attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials
tested are representative of all materials described by this document.

Date: 9/27/07

Printed Name/Title:

CES USE ONLY (DO NOT WRITE IN THIS SPACE)				
Compliance Officer: Polhen Ch	Process Fa	cility Information:		
Date: 10-4-07 Approve	Rejected .20/gal- \$2	50 min		*TEC
Part. 10 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1		11		
Approval Number: 240	2	- 11/		
		A Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Cons	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l	

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SEP-26-2007 18:46

CES Environmental Service

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SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? X YES □ NO If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX, IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions **Incincration** wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from perfoleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastcwater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

CES Environmental Service

713 676 1676

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- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

Oils Subcategory

Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease. CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Taplo Enpho 2407



# **Waste Pre-Acceptance/Approval Letter**

Date 9/30/2007

Dear Kevin White

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2407

Generator: Tapco Enpro

Address: 11307 W. Little York

Houston, TX 77041

#### Waste Information

Name of Waste: Grinding sludge TCEQ Waste Code #: CESQ5791

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Grinding process / metal parts

Color: black

Odor: hydrocarbon

pH: neutral

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Genera	tor Information	_ En	pro	
Company:		- (apco-		
Address:	11	11307 W- Little	Kile	
City, State, Zip:	Houston Tx.	77044 77041		
Contact:	SKIP Aller		Title:	Megional Myr.
Phone No:	832-729-	. 5822	Fax No:	
24/hr Phone:				
U.S. EPA LD. No:	CESOG_	NK		7.12
State I.D.	87604		SIC Code:	3491
SECTION 2: Billing	Information - Sa	me as Above		
Company:		mionth		
Address:	223 Mari	Ŋr		
City, State, Zip:	Harston	75. 77029	· · · · · · · · · · · · · · · · · · ·	
Contact:	1/2 - 1/2 ml	Title:	Sales	
Phone No:	281-960-3967	Fax No:		
I WOWE 140.	201-140 310/	~ ~ ~ · · · · · · · · · · · · · · · · ·		
SECTION 3: Genera	al Description of the	Waste		
,			•	
Name of Waste: 6	Uname snada	g Waste:	Dans 1	hat I Ports
<b>Detailed Description</b>	of Process Generation	g Waste: _ Grand	100 672	Metor In 1
			_	
Physical State:	Liquid Liquid	⊠ Sludge □	Powder	
	Solid Solid	Filter Cake	Combination	
011		14. 6. 4		
Color: Black	O	ior: Hydrocarber	^	
Specific Gravity (wat	er=1):   U	Density: 1 lbs/gal		
specific drawing (	~~~ <del>~~</del>	2010-7		
T -41-0-1-1	Cinala nhasa	☐ Multi-phase		
Layers:	Single-phase	Mun-husse		• • • • • • • • • • • • • • • • • • •
Cantainan Timas	☐ Drum	Tote	Truck	Other (explain)
Container Type:	Li Diam		LIGUR	Cuer (explain)
Container Size:	·	Giryd.		
		PPX		•
Frequency:	☐ Weekly	Monthly	Quarterly	☐ Yearly
	~~	Other:	Z mmt3	
Number of Units (con	•			
Texas State Waste C	ode No:	CE SN5791 _		
Proper U.S. DOT Sh	ipping Name:	Non-RCRA,	Non-Do	T Regulated noticed
Class:	UN/NA		PG:	RQ:
Flash Point	pH ,	Reactive Sulfides	Reactive Cya	nides Solids
NA NA	pH Neutref	() mg/l	<u>/)</u> mg/l	<u>100</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel
-150/mg/l	7/2 w mg/1		Ø mg/l	

### SECTION 4: Physical and Chemical Data

		The waste c	OMPONENT onsists of the	STABLE following materials		Concentration Ranges are acceptable	Units or %
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Various Meas		10
SECTION 5: Safety Related Data		
If the handling of this waste requires the use of special protect	iva aquinment nlegge evnlein	
	ive equipment, please explain.	
	<del></del>	
SECTION 6: Attached Supporting Documents		
List all documents, notes, data, and/or analysis attached to thi	s form as part of the waste approval p	ackage.
	Parameter Parameter Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Special Sp	B
- Analysis		
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any):		
- None		
SECTION 8: Generator's Knowledge Documentation		
SECTION 8: Generator's Knowledge Documentation		
Laboratory analysis of the hazardous waste characteristics, lis	ted below, WAS NOT PERFORMED	based upon the following
generator knowledge:	•	
TCLP Metals: TCLP Volatiles:		
TCLP Semi-Volatiles:		
Reactivity:		
Corrosivity:		
Ignitability:		
SECTION 9: Generator's Certification		
The information contained herein is based on  generator know	ledge and/or M analytical data. I heret	y certify that the above a
attached description is complete and accurate to the best of my omissions of composition properties exist and that all known or		
tested are representative of all materials described by this docume	nt.	a corney diam me mater
. //	Li	1
Authorized Signature:	Date: 10 5 0	
Buinted Name (Titles		
Printed Name/Title:		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)		
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Compliance Officer: 1606 Compliance		
Date: 10-5-0) (Approved Rejected	Check with	Joy for prairing
21:07	+ (1	
Approval Number: 2407	<u>ISL</u>	
	2.3	* * * * * * * * * * * * * * * * * * *

#### SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations

#### Organics Subcategory: Subpart C

Landfill leachate

	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation
	Wastewater from organic chemical product operations
亓	Trak clean out from organic non-netroleum sources

Wastewater from oil bearing paint washes

(1)	If the waste contains oil and grease at or in	excess of 100 mg/L, the waste should be classified in the	e oils subcategory.
(2)	If the waste contains oil and grease less that of the values listed below, the waste should	in 100 mg/L, and has any of the pollutants listed below it be classified in the metals subcategory.	n concentrations in excess
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L		ii ii ii ii ii ii ii ii ii ii ii ii ii
(3)		an 100 mg/L, and does not have concentrations of cadmin t, the waste should be classified in the organics subcatego	
-	Metals Subcategory	A.	
	Oils Subcategory		
	Organics Subcategory		

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

ENVIRON EXPRESS LABORATORIES

401 N. 11TH STREET

LA PORTE, TEXAS 77571

281/471-0951

281/471-5821 (FAX)

#### **FACSIMILE COVER**

**COMPANY: Select Environmental** 

PLEASE DIRECT FOLLOWING PAGE(S) TO: Keven White

PAGES INCLUDING COVER LETTER: 3



FAX: 713.255.1761

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this message in error, please notify us immediately by telephone and return the original message to us at the above address via postal service, at our expense.

1 of 3



#### ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St. La Porte, TX 77571 281,471,0951 FAX:281,471,5821

CERTIFICATE OF ANALYSIS NO:

10- 4-0/; 3:24PM;ENVITOR

62263.01

Customer: Select Env.

Environ ID: 62263.01

Project ID: Teppco

Matrix: Solid

Sample ID: Teppco Enpro

Sampled: 08-30-07

Project Loc: Houston Charge/P.O.:

Type: Grab

Received: 08-31-07 Reported: 09-10-07

TCEQ TCLP METALS, RCL BENZENE, & TPH

ANALYTE/	F	ESULT	UNITS	REG.	MQL	TEST	TEST	DATE	TIME
PARAMETER				LIMIT		METHOD	BY		
BTEX									
Benzene	<	0.005	mg/kg	-	0.005	SW846.8021B	DMB	09-06-07	16:32
Toluene	<	0.005	mg/kg		0.005	SW846.8021B	DMB	09-06-07	16:32
Ethylbenzene	<	0.005	mg/kg	-	0.005	SW846.8021B	DMB	09-06-07	16:32
Xylenes	<	0.015	mg/kg		0.015	SW846.8021B	DMB	09-06-07	16:32
Total BTEX	<	0.030	mg/kg		1	SW846.8021B	DMB	09-06-07	16:32
RCI	1		1						
Reactive Cyanide	<	50	mg/kg	250	50	SW846.7.3.3	LC	09-05-07	14:45
Reactive Sulfide	<	50	mg/kg	500	50	SW846.7.3.4	LC	09-05-07	14:35
Corrosivity (Ph)	1	8.75	su	=>2; =<12.5		SW846.9045C	LÇ	09-05-07	14:30
Ignitability	>	160	٩F	> 140		SW846.1010M	LC	09-06-07	13:00
METALS (RCRA) - TCLP				ļ	Ī	SW846.1311	MN	08-31-07	1
Arsenic	<	0.02	mg/l	5.00	0.02	SW846.6010B	JK	09-05-07	16:00
Barium	l	0.86	mg/t	100	0.02	SW846.6010B	JK	09-05-07	16:00
Cadmium	<	0.02	mg/l	1.00	0.02	SW846.6010B	JK	09-05-07	16:00
Chromium	F	0.39	mg/l	5.00	0.02	SW846.6010B	JK	09-05-07	16:00
Lead		0.09	mg/l	5.00	0.02	SW846.6010B	JK	09-05-07	16:00
Selenium	<	0.05	mg/l	1.00	0.05	SW846.6010B	JK	09-05-07	16:00
Silver	<	0.05	mg/l	5.00	0.05	SW846.6010B	JK	09-05-07	16:00
Mercury	<	0.002	mg/l	0.200	0.002	SW846.7470A	MN	09-06-07	12:00

TCLP - Toxcleity Charasteric Leaching Procedure su - Standard Units

REG - Requistory Limit (User Should Confirm Limits)

MQL - Method Quanitation Limit

PPM - Parts Per Million

mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D Laboratory Director

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281) 471-0951 /	(800) 880-0156	044 0000	Phone: 713-6	15-73	76				hoле: ax:	713	-6)	2.	737	5				Cooler Temp. (°C)	Preservative Shown?
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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 5/19/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** 

Expiration Date 12/10/2009

**Producer:** CES Environmental Services, Inc.

Address: 4904 Griggs Rd Houston, TX 77021

Material / Product Information

Name of Material / Product Process oil

**Container Type:** 

Replace existing
profile # 2429 with this
The name of the product is
Process oil, not & cutter steep

Detailed Description of Process Generating or Producing the Material / Product:

Process oil

Color: tan to dark brown

Odor: slight sulfur or hydroca pH: na

**Physical State:** 

**Incompatibilities:** Oxidizers

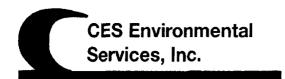
Safety Related Data/Special Handling:

PPE for combustibles

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 12/10/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

**CES Profile #** 

Expiration Date 12/10/2009

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Cutter stock PROEESS OIL

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

**Gutter stock** 

**Color:** tan to dark brown Odor: slight sulfure or hydroc pH: na

**Physical State:** 

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

PPE for combustibles

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

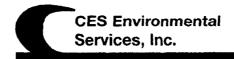
SECTION 1: Gener	ator Information	1									
Company :	CES Environn	nental Servi	ces, Inc								
Address :	4904 Griggs F	Rd 4904 Gr	iggs Roa	ad	-	<del></del>					
City, State, Zip:	Houston TX 7	7021		•							
Contact :	Matt Bowman					Т	itle :				
Phone No:	(713) 676-146	30			_	F	ax:				
24 / HR Phone :											
U.S EPA I.D No :	na										
State I.D:	na					s	IC Code	na			
SECTION 2: Billing	Information										
Company :	CES Environn	nental Servi	ces, Inc	•							
Address :	4904 Griggs F	Rd 4904 Gri	ggs Roa	ad		•	· •				
City, State, Zip :											
Contact :						Ti	itle :				
Phone No :	(713) 676-146	60				F	ax:				
SECTION 3: General	-	f the Waste									
Name of Waste :	Cutter stock	· PRO	<u>C</u>	5 011	<u> </u>						
Detailed Descript	tion of the Pro	cess Gene	rating V	Vaste:							
Cutter stock											
Physical State :	✓ Liquid		∭ SI	udge	í	Powd	er				
. nyolodi Otato .				_	1						
	Solid		∭ Fi	Iter Cake	l	Comb	ination				
Color :		tan te	o dark b	rown	Odo	r:		slight s	ulfure or	hydrocarbon	or toluene
Specific Gravity (	(Water=1):		.956		Dens	sity :	_		7.5-7	.9	_lbs / gal
Layers :	<b>✓</b> Single	-Phas	M M	ulti-Phase							
Container Type :	Drum		Tote	📝 1	ruck	<b>a</b> 0	ther (expl	ain)			
Container Size :	6000					[1008]	one (exp.	<b>-</b>			
Number Of Units											
Texas State Wast	· ———	<del></del>	Product	•							
Proper U.S. State			1 10000		 1002 O	\analaa4:	لمندستا ملط			1-1	
riopei U.S. State	Waste Code I	NO:			1993, C	ombusu	ble Liquid	, n.o.s.,(c	Jutter St	ock)	
Class :3		UN/NA:_	NA19	93		PG:	- 111			RQ:	na
Flash Poin	t	рH		Reacti	ve Sulf		Reacti	ve Cyan	ides	Solie	
>150		na		<u> </u>	na	mg/l		па	mg/l	0-1	1 %
Oil and Grea	se	TOC			Zinc			Copper		Nick	æl
98-100%	mg/l	na	mg/l		na	ma/l		na	ma/l	na	

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE  The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Light neutral oils (Diluent oil)	0-98	%
Alkylated phenois	0-100	%
Calcium phenates	0-5	%
Water	0-3	%
Solids (Calcium hydroxide/calcium oxide)	0-0.5	%

Light neutral oils (Diluent oil) 0-98 Allystated phenols 0-100 Calcium phenates 0-5 Solids (Calcium hydroxide/calcium oxide) 0-5  Solids (Calcium hydroxide/calcium oxide) 0-0.5  ECTION 5: Safety Related Data If the handling of this waste requires the use of special protective equipment, please explain.  PE for combustibles  ECTION 6: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.  All description of the waste approval package.  ECTION 7: Incompatibilities  ECTION 7: Incompatibilities  ECTION 8: Generator's Knowledge Documentation aboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the ollowing generators knowledge  ECTION 8: Generator's Knowledge Cocumentation aboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the ollowing generators knowledge  ECTION 9: Generator's Certification  he information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. ☐ hereby certify bove and attached description is complete and accurate to the best of my knowledge and ability to determine the eliberate or willful omissions of composition properties exist and that all known or suspected hazards have been beclosed. I certify that the materials gested are representative of all materials described by this document.  Authorized Signature: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	The material	product consists of the following materials	agee are acceptable	
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Solids (Calcium hydroxide/calcium coide)  Solids (Calcium hydroxide/calcium coide)  ECTION 5: Safety Related Data The handling of this waste requires the use of special protective equipment, please explain.  PE for combustibles  ECTION 6: Attached Supporting Documents ist all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.  Ist all incompatibilities  Hease list all incompatibilities  Hease list all incompatibilities  ECTION 6: Generator's Knowledge Documentation aboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the ollowing generators knowledge  CLP Metals:  X  CLP Volatilies:  X  CLP Semi-Volatiles:  X  Section 9: Generator's Certification he information contained herein is based on  He information contained herein is based on  He information contained herein is based on  He information and attached description is complete and accurate to the best of my knowledge and ability to determine believate or willfull omissions of composition properties exist and that all known or suspected hazards have been isclosed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature:  Date: 12/10/2007  Process Facility Information:  If this came in on Lubrizo profile 2562 as allystated phenols, it must be kept hot in incoming profile. If this came in under profile. This came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under profile. If this came in under		•		%
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pritability:  x  ECTION 9: Generator's Certification  the information contained herein is based on generator knowledge and/or analytical data. I hereby cerity bove and attached description is complete and accurate to the best of my knowledge and ability to determine the eliberate or willful omissions of composition properties exist and that all known or suspected hazards have been isclosed. I certify that the materials tested are representative of all materials described by this document.  The process Facility Information:  Compliance Officer: Prabhakar Thangudu  Approved  Rejected  Rejected  Rejected  Rejected  Approved  Rejected  Rejected  Rejected  Rejected  Approved  Rejected	eactivity :	-		
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Authorized Signature:  Date: 12/10/2007  Printed Name / Title: n/a /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Approved  Rejected  Rejected  Process Facility Information:  If this came in on Lubrizol profile 2552 as alkylated phenols, it must be kept hot. R incoming profile. If this came in under profile 25 STINKS and you must scrub vapors be pulling a sample. Test for ash (<0.5%), >150, and water <1%/ Water must be reserved.				
Printed Name / Title: n/a /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Approved  Rejected  Rejected  Process Facility Information:  If this came in on Lubrizol profile 2552 as alkylated phenols, it must be kept hot. R incoming profile. If this came in under profile 25 STINKS and you must scrub vapors be pulling a sample. Test for ash (<0.5%), >150, and water <1%/				Jee 11
Printed Name / Title: n/a /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Approved  Rejected  Rejected  Process Facility Information:  If this came in on Lubrizol profile 2552 as alkylated phenols, it must be kept hot. R incoming profile. If this came in under profile 25 STINKS and you must scrub vapors be pulling a sample. Test for ash (<0.5%), >150, and water <1%/	•	111	•	
Process Facility Information:  If this came in on Lubrizol profile 2552 as alkylated phenols, it must be kept hot. R incoming profile. If this came in under profile 25 STINKS and you must scrub vapors be pulling a sample. Test for ash (<0.5%), >150, and water <1%/	Authorized Signature :	$\sim$ $\mathcal{H}$	Date: 12/10/2007	
Compliance Officer: Prabhakar Thangudu  Approved  Rejected	rinted Name / Title :	n/a /		
Compliance Officer: Prabhakar Thangudu  Approved  Rejected	CES USE ONLY (DO NO	OT WRITE IN THIS SPACE)	Process Facility Information	
Approved Rejected Rejected Rejected Rejected Rejected Rejected Prabhakar Thangudu Approved Rejected Rejected Rejected Rejected STINKS and you must scrub vapors be pulling a sample. Test for ash (<0.5%), >150, and water <1%/	20 001 0N11 (B0 N			
Rejected Rejected Rejected STINKS and you must scrub vapors be pulling a sample. Test for ash (<0.5%), >150, and water <1%/ Water must be re	Compliance Officer :	Prabhakar Thangudu Yah	alkylated phenois, it must be kept ho	ot. Refer to
STINKS and you must scrub vapors be pulling a sample. Test for ash (<0.5%), >150, and water <1%/ Water must be re	•			
pulling a sample. Test for ash (<0.5%), >150, and water <1%/ Water must be re		Approved Rejected		
>150, and water <1%/ Water must be re				
to the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of	24	124		
if >1%. Must test to be sure it will blend		•		
diesel. Charge \$1.50/gal. Usually goe Allied Petrochemical. Check with Matt / K				

2



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mate	rial Producer Informati	<u>on</u>		
Company:	CES			
Address:		<del></del>		
City, State, Zip:				
Contact:			Title:	
Phone No:		<del> </del>	Fax No:	
24/hr Phone:			<u>—</u>	
U.S. EPA I.D. No:				
State I.D.			SIC Code:	
SECTION 2: Billin	g Information – 🔲 San	ie as Above		
Company:				
Address:				
City, State, Zip:				
Contact:		Title:		
Phone No:		Fax No:		
<del>-</del>		················		
<b>SECTION 3:</b> Gener	al Description of the M	aterial / Product		
NT 0NF ( 1 2 / 2	DICKEL	EXTENDER	CUTTER STO	XK
	Product: DIEST	- · · · · ·	_	
Detailed Description	of Process Generating	or Producing the Ma	terial / Product:	
Physical State:	Liquid	Chudas	Powder	
r nysicai State:		Sludge		
•	Solid [	Filter Cake	Combination	
- 1 Pag	um / Dark).	Singsod	un or human	ocarbia or toluene
Color: Jun - En	Odo	r: Aug		101000
Specific Gravity (wa	OG Ola	Density: 1.5-1,	9	
Specific Gravity (wa	ter=1):312-310	Density:lbs/ga		
	~_/			
Layers:	Single-phase	☐ Multi-phase		
	<u> </u>	_	_/	
Container Type:	Drum	_ Tote	Truck	Other (explain)
Container Size:				
Fraguenave	Monteles F	Monthly 1	O	T Variation
Frequency:	Weekly	Monthly	Quarterly	∐ Yearly
Number of Units (co	ntainers):	abostible ha	vidr, 1.0,5	Carical Balan
	Con	The Man		(cotterrock)
Proper U.S. DOT Sh	ipping Name:	ARCHE WHEE	13/110,31	0000
_	~	NO CONT	- Coulded	
Class:	3 UNINA:	NA 1993	PG:	TTT RQ: NA
		<b>(3)</b>	-	
Flash Point	nH . O N	, —	T NT/A	Citiz
>1500K	PHULANOV N	" ALDA	N/A	Solies
Oil&Grease		Zinc	Copper	Niekel
mg/l	TOC <u>  See</u> mg/l	Zinc MMmg/I	M ≥ mg/l	Nickelmg/l
10 110 JU	, <del></del>	1	184-52-11-6/1	116''
10 100 10				

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
LIGHT NEUTRAL OILS (DILVENT OIL)	0-98	20
ALLYLATED PHENOUS	0-100	
CALCIUM PHENATES	0-5	
Whater WATER	0-3	
SOLIDS (CALCIUM HYDROXIDE/CALCIUM O	4DE) 0-0.5	2

SECTION 5: Safety Related Data	
If the handling of this material / product requires the use of sp	pecial protective equipment, please explain.
- STANDARD PPE	
SECTION 6: Attached Supporting Documents	
List all documents, notes, data, and/or analysis attached to this	form as part of the material / product profile.
- N/A	
SECTION 7: Incompatibilities	
Please list all incompatibilities (if any):	
- Oxidizers	
SECTION 8: Material Producer's Certification	
attached description is complete and accurate to the best of my	ledge and/or analytical data. I hereby certify that the above and knowledge and ability to determine that no deliberate or willful suspected hazards have been disclosed. I certify that the materials at.
Authorized Signature:	Date:
Printed Name/Title:	
	<del></del>
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager:	Process Facility Information:
Date: Approved Rejected	
Approval Number:	

#### Summary of new Lubrizol Streams

B-485 Alkylated Phenols:

MUST BE TRANSPORTED IN AN INSULATED TRAILER. MUST STAY HOT. Jack will take this stream. Goes in the job write-up...

We will pay Lubrizol \$45 off Platts #6 fuel oil and deduct for BS&W as per the ROS spreadsheet. We will charge 0.14/gallon for water if the load is less than 50% water. If the load is more than 50% water, we will not pay for oil at all and will charge 0.14/gallon for the entire load.

We will test for specific gravity, ash, flash and water. These are going to Jack as diesel fuel extender.

H-73 Diluent Oil:

This STINKS and will absolutely be a problem if it gets opened. Jack wants this as well.

PFI: We will pay Lubrizol \$45 off Platts #6 fuel oil and deduct for BS&W as per the ROS spreadsheet. We will charge 0.14/gallon for water if the load is less than 50% water. If the load is more than 50% water, we will not pay for oil at all and will charge 0.14/gallon for the entire load. Must scrub vapors from trailer before pulling sample.

PFI: We will test for specific gravity, ash, flash and water. Diesel fuel extender.

A-208 Light Oils and Toluene:

Charge \$69 + FSC; charge \$100 for trailers rental per day; charge 0.25/gallon

PFI: Filter and then distill to separate toluene from neutral oil. Flash on oil must be over 200°F; be sure to boil off all toluene or flash will be too low. Toluene can be sold as unrestricted light ends/solvents; oil can go into diesel fuel extender if it doesn't make it into base oil. (Note: Diesel fuel extender must be over 150°)

Drummed Line Flysh:

Jack says these are cats and dogs; 1000 different products mixed together. The way he and Lubrizol worked it out is that Tim from Delta (they package it) would call and let Jack know they were bringing a load of the drums. Jack would offload pallets of drums. As drums were used he would save both pallets and drums, drums would be recycled (taken to Clute) and Lubrizol got credit for recycling. Pallets would go back to Delta when they had enough. Jack paid for all trans.

We will charge Lubrizol \$500 per load plus FSC and charge \$25/drum.

PFI: DO NOT put our stickers over Lubrizol stickers or the drums CANNOT be recycled. Very high ash! We will bring to CES and terminate manifest.

#### **OUTBOUND PRODUCTS:**

#### Lube Oil Additive:

PFI: Charge 1.00 per gallon; weigh trucks heavy and light and subtract; then deduct 30 pounds per drum and 40 pounds per pallet to determine weight of product. Then use 8.5 lbs/gallon to convert to gallons. (we will pull samples and get a composite to determine what specific gravity really is).

# -Cutter Stock: PROCESS OIL

PFI: Test for ash (less than 0.5%), flash above 150), and water (less than 1%). Water must be removed if over 1%. Must test to be sure it will blend with diesel. Check Jack for 1.50/gallon.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 12/10/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile #

2430

Expiration Date 12/10/2009

**Producer:** CES Environmental Services, Inc.

Address:

4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Drummed line flush

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Neutral oils from flushing of tanks and lines in the production of lube oil additives.

Color: Tan-dark

**Odor:** Hydrocarbon

pH: na

**Physical State:** 

**Incompatibilities:** Oxidizers

Safety Related Data/Special Handling:

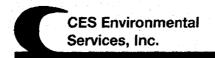
Std PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

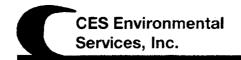
TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	rator Inform	ation									
Company :	CES Env	ironmental S	ervices, Inc								
Address :	4904 Grig	ggs Rd 4904	Griggs Roa	ad							
City, State, Zip:	Houston	TX 77021									
Contact:	Matt Bow	man					Title :				
Phone No :	(713) 676	-1460					Fax:				
24 / HR Phone :		<del></del>								•	
U.S EPA I.D No :	na										
State I.D:	na		<del> </del>				SIC Code	na	·		~~ <u>~</u>
SECTION 2: Billing											
Company :		ironmental Se					····	·			
Address :		gs Rd 4904	Griggs Roa	ad				<del></del> -			
• • •	Houston	TX 77021							<del></del>		
Contact :							Title :			<del></del>	
Phone No :	(713) 676	-1460					Fax:				
SECTION 3: Genera	al Descripti	on of the Wa	ste								
Name of Waste :											
											~
Detailed Descrip			_			- 01	·				
Neutral oils from f	lusning of t	anks and line	es in the pro	auctioon	or lube	oli addii	(IVes.				
Physical State :	<b>✓</b> Li	quid	SI SI	udge		Pow	der				
	∭ Sc	olid	Fil	ter Cake		Com	bination				
Color :		· <u> </u>	Tan-dark	(	Odd	or:			Hydrod	carbon	
Specific Gravity (	(Water=1)	:	.9498		Der	nsity :		<del></del>	7.8-8.17		lbs / gal
Layers :	<b>✓</b> Si	ngle-Phas	Mı	ulti-Phase	е						
Container Type :	<b>✓</b> Dr	rum 🏽	Tote		Truck		Other (exp	olain)			
Container Size :		55									-
Number Of Units		60									
Texas State Wast		<del></del>	Product	<b>,</b>							
			1 10000			D0D4/4					
Proper U.S. State	waste Co	ode No :	<del></del>	<del></del>	Non-	RCRAIN	Ion-DOT F	kegulated	Material	<del></del>	
Class: na		UN/NA	A: <u>na</u>			PG	: na			RQ:_	na
Flash Poin	it	pН		Reac	tive Su	lfides	Reac	tive Cyar	nides	Soli	ds
>200	_	na		_	na	mg/	1	na	mg/l	0.5	-3 %
Oil and Grea	se	TOC	;		Zinc			Copper		Nick	æl
95-99%	mg/l	na	mg/l	-	na	mg/	7	na	mg/l	na	a mg/l

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Light and heavy neutral oils (Flush oils)	40-60	%
Lube oil additives	30-40	%
Water	1-5	%
Solids (Calcium hydroxide / Calcium oxides)	0-1	%

Light and heavy neutral oils (Flush oils)	40-60	%
Lube oil additives	30-40	%
Water	1-5	%
Solids (Calcium hydroxide / Calcium oxides)	0-1	%
SECTION 5: Safety Related Data	<del></del>	
f the handling of this waste requires the use of special protective equi	nment please explain	
Std PPE	pment, prease explant.	
SECTION 6: Attached Supporting Documents		
List all documents, notes, data, and/or analysis attached to this form a	s part of the waste approval package.	
none		
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any): Oxidizers		
SECTION 8: Generator's Knowledge Documentation		
<ul><li>aboratory analysis of the hazardous waste characteristics, listed belo ollowing generators knowledge</li></ul>	w, WAS NOT PERFORMED based upo	on the
ΓCLP Metals :   X		•
CLP Volatilies : <u>x</u>		
CLP Semi-Volatiles : <u>x</u>		
Reactivity: <u>x</u>		
Corrosivity: <u>x</u>		
gnitability : <u>x</u>		
SECTION 9: Generator's Certification		
The information contained herein is based on generator knowledge bove and attached description is complete and accurate to the best of deliberate or willful omissions of composition properties exist and that disclosed. I certify that the materials tested are representative of all materials.	f my knowledge and ability to determi all known or suspected hazards have	ne that no
Authorized Signature : PA	Date : 12/10/2007	
Printed Name / Title : n/a /		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information	tion :
Compliance Officer: Prabhakar Thangudu Pallur Approved Rejected	Bill Lubrizol \$500/load + FSC a \$25/dm. Do not put our stickers of stickers or drums cannot be recycle ash! These drums will be sold Petrochemical.	over Lubrizol ed. Very high
Date: 12/10/2007 Status:		
Approval Number: 2430		



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Producer Information		
Company:	_CES		
Address:			
City, State, Zip:		Title:	
Contact: Phone No:		Fax No:	
24/hr Phone:	·	rax no.	
U.S. EPA I.D. No:			
State I.D.		SIC Code:	
	g Information – Same as Abo	<u>ve</u>	
Company: _ Address:			
City, State, Zip:			
Contact:		Title:	
Phone No:		Fax No:	
_			
	al Description of the Material /		
Name of Material / 1	Product: DZUMMED	LINE FLUSH	
Detailed Description	of Process Generating or Produ	icing the Material / Product:	Restral DIS from Aushing of tans & Lines in the
Detailed Description	of theese concluding of thous	eng the material, product.	anders of tack of
		_	wishing or the
Physical State:	☐ Liquid ☐ Sludg	e Dowder	uns in the
	Solid Filter	Cake Combination	production of lube
Color: Tan- Da	(V 0) 11.	división.	
		Municipal	oil additions.
Specific Gravity (wa	ter=1): <u>G4</u> -G6 Density:	1.8-8.17	
Speeme Gravity (w.	20110101	100/ gas	
Layers:	Single-phase	Multi-phase	
	<i>Y</i> _	_	_
Container Type:	Drum 🗌 Tote	Truck	Other (explain)
Container Size:		<u> </u>	<del></del>
Frequency:	weekly Mon	thly 🔲 Quarterly	☐ Yearly
Number of Units (co	ntainers): <u>30-</u> 100/mom	Other:	
Proper U.S. DOT Sh	nipping Name:	- DOT Zeculated	material
Class:	LIN/NA •	`-bC:	PO: . IA
Class: NA	NE NE	<u>&gt;                                    </u>	RQ: NA
Flash Point	pH NA NA	N/A	Solids 6-350
Oil&Grease		Copper	Nickel %
CHOCOLEASE	1 I ZUIIC	Copper	1178
mg/l	$ D \rangle \sim mg/l$	mg/l <u>N.⊅</u> mg/l	[ <i>N ▶</i> mg/l
	TOC Zinc	mg/l N/12mg/l	Nickel

## SECTION 4: Physical and Chemical Data

Concentration	Units	
Ranges are acceptable	or %	
40-100	10	
20-40		
1-5		
0 0-1		
r>)		

SOLIOS CALCILLIN IN CHOXIDET CAL	(Turgios) O-
SECTION 5: Safety Related Data	
If the handling of this material/product requires the use of sp  STANDARD PPE Required	ecial protective equipment, please explain.
SECTION 6: Attached Supporting Documents	
List all documents, notes, data, and/or analysis attached to this	form as part of the material / product profile.
- NONE	
SECTION 7: Incompatibilities	
Please list all incompatibilities (if any):	
- MIDZERS	
SECTION 8: Material Producer's Certification	
attached description is complete and accurate to the best of my	edge and/or  analytical data. I hereby certify that the above and knowledge and ability to determine that no deliberate or willful suspected hazards have been disclosed. I certify that the materials it.
Authorized Signature:	Date:
Printed Name/Title:	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager:	Process Facility Information:
Date: Approved Rejected	See Sheet
Approval Number:	

### Summary of new Lubrizol Streams

B-485 Alkylated Phenols:

MUST BE TRANSPORTED IN AN INSULATED TRAILER. MUST STAY HOT. Jack will take this stream. Goes in the job write-up...

We will pay Lubrizol \$45 off Platts #6 fuel oil and deduct for BS&W as per the ROS spreadsheet. We will charge 0.14/gallon for water if the load is less than 50% water. If the load is more than 50% water, we will not pay for oil at all and will charge 0.14/gallon for the entire load.

We will test for specific gravity, ash, flash and water. These are going to Jack as diesel fuel extender.

H-73 Diluent Oil:

This STINKS and will absolutely be a problem if it gets opened. Jack wants this as well.

PFI: We will pay Lubrizol \$45 off Platts #6 fuel oil and deduct for BS&W as per the ROS spreadsheet. We will charge 0.14/gallon for water if the load is less than 50% water. If the load is more than 50% water, we will not pay for oil at all and will charge 0.14/gallon for the entire load. Must scrub vapors from trailer before pulling sample.

PFI: We will test for specific gravity, ash, flash and water. Diesel fuel extender.

A-208 Light Oils and Toluene:

Charge \$69 + FSC; charge \$100 for trailers rental per day; charge 0.25/gallon

PFI: Filter and then distill to separate toluene from neutral oil. Flash on oil must be over 200°F; be sure to boil off all toluene or flash will be too low. Toluene can be sold as unrestricted light ends/solvents; oil can go into diesel fuel extender if it doesn't make it into base oil. (Note: Diesel fuel extender must be over 150°)

### Drummed Line Flush:

Jack says these are cats and dogs; 1000 different products mixed together. The way he and Lubrizol worked it out is that Tim from Delta (they package it) would call and let Jack know they were bringing a load of the drums. Jack would offload pallets of drums. As drums were used he would save both pallets and drums; drums would be recycled (taken to Clute) and Lubrizol got credit for recycling. Pallets would go back to Delta when they had enough. Jack paid for all trans.

We will charge Lubrizol \$500 per load plus FSC and charge \$25/drum.

PFI: DO NOT put our stickers over Lubrizol stickers or the drums CANNOT be recycled. Very high ash! We will bring to CES and terminate manifest.

OUTBOUND PRODUCTS: WIN HAR TO SOLD TO MILED PLYNCHEMICAL

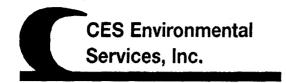
Lube Oil Additive:

PFI: Charge 1.00 per gallon; weigh trucks heavy and light and subtract; then deduct 30 pounds per drum and 40 pounds per pallet to determine weight of product. Then use 8.5 lbs/gallon to convert to gallons. (we will pull samples and get a composite to determine what specific gravity really is).

Cutter Stock:

PAI: Test for ash (less than 0.5%), flash above 150), and water (less than 1%). Water must be removed if over 1%. Must test to be sure it will blend with diesel. Check Jack for 1.50/gallon.

78-4-09 V7.34



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## **Material / Product Approval Letter**

Date 1/18/2008

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2431

Expiration Date 1/18/2010

Producer: CES Environmental Services, Inc.

**Address:** 4904 Griggs Rd

Houston, TX 77021

Material / Product Information

Name of Material / Product Polystyrene

**Container Type:** 

Vac Box

Detailed Description of Process Generating or Producing the Material / Product:

Polystyrene received from customers.

Color: White

Odor: Mild

pH: na

**Physical State:** 

Incompatibilities: na

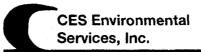
Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Produ	cer Infor	mation	<del></del>								
Company :	CES E	nvironme	ental Serv	ices, Inc								
Address :	4904 G	riggs Ro	d 4904 Gi	riggs Roa	ad							
City, State, Zip:	Housto	n TX 77	021									
Contact :	Matt Bo	owman					T	itle :				
Phone No:	(713) 6	76-1460	)				F	ax:				
24 / HR Phone:												
U.S EPA I.D No :	na											
State I.D :	na						s	IC Code na	а			
SECTION 2: Billing	Informa	tion										
Company:	CES Er	nvironme	ental Serv	ices, Inc.								
Address :	4904 G	riggs Rd	4904 Gr	iggs Roa	ıd							
City, State, Zip:	Houston	n TX 770	021									
Contact :							Ti	itle :				
Phone No:	(713) 6	76-1460					F	ax:				
SECTION 3: Genera				al / Produ	ct							
Name of Mateiral	/ Produ	ict:Poly	styrene									
<b>Detailed Descript</b>	tion of ti	he Proc	ess Gene	rating o	r Produ	icing the	Material	/ Product:				
Polystyrene receiv	ed from	custome	ers.									
Physical State :		Liquid		SI	udge		Powd	er				
	•	Solid		■ Fil	ter Cake	•	Comb	ination				
Color:				White		Odo					Mild	
				vviile							,	
Specific Gravity (	Water=1	l):		na		Den	sity :			na	\	bs / gal
Layers :	•	Single-F	Phas	Me	ulti-Pha	se						
Container Type :		Drum	<b>(38)</b>	Tote		Truck	V 0	ther (expla	in)		Vac Box	
Container Size :		20 yd	_					, ,	,			
Number Of Units	:	2										
Proper U.S. DOT	Shippin	g Name	:			Non-l	RCRA/No	n-DOT Reg	gulated Ma	aterial		
Class: na			UN/NA:	na			PG:	na			RQ:	na
Flash Poin	t		рΗ		Rea	ctive Sul		Reactiv	e Cyanid	- 1	Solids	
>435			na ————			na	mg/l	na	mg/	1	100	
Oil and Grea	se		TOC			Zinc	V	C	opper		Nicke	!
			na	mg/l		na	mg/l	l		mg/l	na	mg/l

**SECTION 4: Physical and Chemical Data** 

	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Polystyrene	95-100	%
Debris	0-5	%
ECTION 5: Safety Related Data		
the handling of this material / product requires the use of special protective tandard PPE	equipment, please explain.	
ECTION 6: Attached Supporting Documents		
ist all documents, notes, data, and/or analysis attached to this form as part of ISDS	of the material / product profile.	
ECTION 7: Incompatibilities		
lease list all incompatibilities (if any):		
ECTION 8: Material Producer's Certification		
ECTION 8: Material Producer's Certification  ne information contained herein is based on   generator knowledge and/o bove and attached description is complete and accurate to the best of my knowledge and that all knowledge and that all knowledge and that all knowledge and that all knowledge and that all knowledge and that all knowledge and that all knowledge and that all knowledge and that the materials tested are representative of all materials	nowledge and ability to determine the town or suspected hazards have been	at no
ne information contained herein is based on  generator knowledge and/o pove and attached description is complete and accurate to the best of my kn eliberate or willful omissions of composition properties exist and that all known	nowledge and ability to determine the town or suspected hazards have been	at no
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ne information contained herein is based on generator knowledge and/opove and attached description is complete and accurate to the best of my kneliberate or willful omissions of composition properties exist and that all knosclosed. I certify that the materials tested are representative of all materials uthorized Signature:	nowledge and ability to determine the own or suspected hazards have been a described by this document.  Date:  Process Facility Information	aat no
ne information contained herein is based on generator knowledge and/opove and attached description is complete and accurate to the best of my knowledge and accurate or willful omissions of composition properties exist and that all knowledge and/opove and attached description is complete and accurate to the best of my knowledge and/opove and attached description is complete and accurate to the best of my knowledge and/opove and attached description is complete and accurate to the best of my knowledge and/opove and attached description is complete and accurate to the best of my knowledge and/opove and attached description is complete and accurate to the best of my knowledge and/opove and attached description is complete and accurate to the best of my knowledge and/opove and attached description is complete and accurate to the best of my knowledge and/opove and attached description is complete and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the best of my knowledge and/opove and accurate to the	nowledge and ability to determine the own or suspected hazards have been a described by this document.  Date:	en ::
ne information contained herein is based on generator knowledge and/opove and attached description is complete and accurate to the best of my kneliberate or willful omissions of composition properties exist and that all knesclosed. I certify that the materials tested are representative of all materials uthorized Signature:	process Facility Information  Process Facility Information  is is a one time sale to Rampak for \$ 150 trans; No testing required. Custo	en ::

### M ATERIAL SAFETY DATA SHEET

Hazardous Materials Identification System (HMIS)

Health Fire

1

Reactivity

1 0



## I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

CastForm™ Polystyrene (PS) Material

Chemical Family:

Polystyrene

Product Use:

Material for Selective Laser Sintering

Manufacturer:

3D Systems

26081 Avenue Hall Valencia, CA 91355

Information call:

661.295.5600 ext 2360 (8:00am to 5:00pm PST)

Emergency call (CHEMTREC): 800.424,9300 (US and Canada)

## II. COMPOSITION/INFORMATION ON INGREDIENTS

Identity

Chemical Abstract Service

Weight %

Threshold Limit

(CAS) Registry Number

Limits (PEL)

N/E

Permissible Exposure

Values (TLV)

Polystyrene powder 9003-53-6

100

6 mg/m3\*

PEL and TLV values are reported as time-weighted average (TWA) unless otherwise noted.

Remarks - The specific identity of the resin is withheld as a trade secret.

## III. HAZARDS IDENTIFICATION

The CastForm PS material is not included on the Occupational Safety and Health Administration (OSHA) list of Toxic and Hazardous Contaminants (29CFR 1910.1000). This standard, however, provides PEL for inert or nuisance dusts. TLV for some nuisance particulates have also been established by the American Conference of Governmental Industrial Hygienists (ACGIH). The following provides the established standards expressed as 8-hour TWA.

OSHA (PEL)

ACGIH (TLV)

Total dust

15 ma/m<sup>3</sup>

10ma/m<sup>3</sup>

Respirable fraction ≤10 microns

5 mg/m<sup>3</sup>

5mg/m<sup>3</sup>

Dust from the CastForm PS material is expected to be the primary hazard in an occupational exposure. Follow good industrial hygiene practices and exercise care when dumping bags, sweeping, mixing or doing other tasks which can create dust. Wear appropriate protective equipment for nuisance dust when handling the powder. Keep powder concentrations at working environment as low as possible and avoid concentrations exceeding TLV values. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Wash thoroughly after handling.

N/E = Not Established; N/A = Not applicable

<sup>\*</sup> Finest powder as nuisance dust.

### III. HAZARDS IDENTIFICATION cont.

Primary routes of entry: eye, skin, ingestion, inhalation

Eye contact: Dust or vapors that contact the eye may be irritating or cause mechanical injury.

Skin contact: May cause slight skin irritation. Molten material will produce thermal burns.

Ingestion: It is reasonable to anticipate ingestion of powder would be irritating to the GI tract.

Inhalation: Dust or vapors may be irritating to the respiratory tract and cause coughing or sneezing. Adverse health effects are caused by the inhalation of the finest powders, below 10 microns.

Chronic toxicity: No effects from chronic exposure are known.

Medical conditions prone to aggravation by exposure: As with any organic compound that is heated to vaporization, exposure may aggravate pre-existing conditions such as colds, allergies, asthma, emphysema and psoriasis.

Toxicology carcinogenicity: No - National Toxicology Program (NTP)

No - International Agency for Research on Cancer (IARC)

## IV. FIRST AID MEASURES

Skin contact: Wash affected skin areas thoroughly with soap and water. See physician if irritation persists.

Eye contact: Immediately flush eyes with flowing water for at least 15 minutes. See physician if irritation persists.

Inhalation: If a problem develops remove person to fresh air and consult a physician.

Ingestion: No harmful effects are anticipated if the powder is swallowed. See physician if irritation occurs.

### V. FIRE AND EXPLOSION DATA

Unusual fire and explosion hazard: Avoid dust clouds and accumulation to minimize the potential for explosions. Keep away from heat, sparks, flame and all other ignition sources. For additional information, refer to National Fire Protection Association (NFPA) pamphlet #654, "Prevention of Fire and dust Explosion in the Chemical, Dye, Pharmaceutical and Plastics Industry".

Flash point: N/A

Autoignition temperature: 450-600°C

Flammable limit: Lower explosive limit (LEL) = 40-70 g/m³ upper explosive limit (UEL) = N/A

Extinguishing media: Water spray, carbon dioxide, foam or dry chemical

### VI. SPECIAL PRECAUTIONS

Ventilation: Provide local exhaust ventilation where heat can cause polymer breakdown, e.g. extrusion, molding and where there is a need to draw dusts and fumes from worker breathing zones. For ventilation guidelines and techniques refer to the publication of "Industrial Ventilation, A Manual of Recommended Practice" available from ACGIH.

Respiratory protection: Use National Institute for Occupational Safety and Health (NIOSH) / Mine Safety and Health Administration (MSHA) approved masks/respirators.

Protective clothing: Use impervious gloves and apron to avoid prolonged skin contact. Also use chemical goggles.

Additional protective measures: Wash after use and before eating, drinking or smoking. Provide local exhaust ventilation where heat can cause polymer breakdown, e.g. extrusion, molding and where there is a need to draw dusts and fumes from worker breathing zones. For ventilation guidelines and techniques refer to the publication of "Industrial Ventilation, A Manual of Recommended Practice" available from ACGIH.

Eyes and face: Safety glasses with side shields are recommended for any type of powder handling. Dust-tight goggles are recommended for dusty operations and areas where vapors accumulate.

Other clothing and equipment: Wear clean body covering and gloves impervious to dust or vapor to minimize skin contact.

## VI. SPECIAL PRECAUTIONS cont.

Storage and handling: Avoid dispersion of dust in to air to reduce potential explosions hazard. Eliminate ignition sources. Conveying and processing equipment should be spark proof, bonded, and grounded to prevent static charge build-up. Maintain good house keeping standards to prevent accumulation of dust. Refer to NFPA pamphlet #654, "Prevention of Fire and Dust Explosion in the Chemical, Dye, Pharmaceutical and Plastics Industry". Keep powder dry and away from acids and strong oxidizing agents. Store material in closed containers.

### VII. PHYSICAL DATA

Boiling point, °C	N/A
Melting point, °C	80
Specific gravity, g/cm <sup>3</sup>	1.05
Vapor pressure @ 20°C	N/A
Vapor density (Air = 1)	N/A
Evaporation rate (Butyl acetate = 1)	NA
% volatile	N/A
Solubility in water	Insoluble
Annearance and odor	Mhite odorles

Appearance and odor White, odorless powder

### VIII. STABILITY AND REACTIVITY DATA

Stability: Stable

Conditions to avoid: Heating above 350°C

Incompatibility (materials to avoid): Acids, bases and strong oxidizing agents to avoid exothermic reactions

Hazardous polymerization: Does not occur

### IX. ENVIRONMENTAL INFORMATION

Spill or leak procedures: Vacuum the dry powder into a closed container with internally and externally explosion-proof vacuum equipment with appropriate electrical classification per National Electrical Code, Article 502. Wear appropriate respiratory protection and protective clothing as described in Section VIII. Transfer to closed containers for disposal.

Waste disposal method: Dispose of waste in a licensed landfill or by incineration in accordance with federal, state and local regulations. For waste disposal purposes, the CastForm material is not defined or designated as hazardous by current provisions of the Federal Resource Conservation and Recovery Act (RCRA – 40CFR261).

Superfund: The Comprehensive Environmental Response Compensation and Liability Act (CERCLA) or "Superfund" levies a tax on hazardous waste materials expected to remain at a hazardous waste disposal facility after its closure (i.e., landfills). The CastForm material and items produced from this material are not regulated as hazardous wastes and are not subject to this Superfund tax.

## X. TRANSPORT INFORMATION

For domestic transportation purposes, powder compounds are not classified as hazardous by the U.S. Department of Transportation under Title 49 of the Code of Federal Regulations.

DOT	Proper Shipping Name:	Synthetic resin, powders
DOT	Hazard Class:	N/A
DOT	Identification No.:	156200
DOT	UN/NA Hazard No.:	N/A
DOT	Label:	N/A
DOT	Reportable Quantity	N/A

### XI. MISCELLANEOUS

SARA Hazard Classification: Immediate (Acute) Health: Yes
Delayed (Chronic) Health: No

Sudden Release of Pressure: No Reactive: No

Fire: No

This product does not contain any chemicals currently on the Extremely Hazardous Section 302 Substance List, Section 302, SARA Title III.

This product does not contain any chemicals currently on the Toxic Chemical List, Section 313, SARA Title III.

All ingredients of this product are listed on the Toxic Substances Control Act (TSCA) inventory.

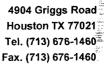
WHMIS Ingredient List (Canada) Classification Class D, Division 2, Subdivision B

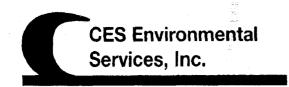
DISCLAIMER OF LIABILITY: The following supersedes any provision in your company's forms, letters, and papers. 3D Systems makes no warranty whether expressed or implied, including warranties of merchantability or of fitness for a particular purpose for this product. No statements or recommendations contained in the product literature are to be construed as inducements to infringe any relevant patent now or hereafter in existence. Under no circumstances shall 3D Systems be liable for incidental, consequential, or other damages from alleged negligence, breach or warranty, strict liability or any other theory, arising out of the use or handling of this product. The sole liability of 3D Systems for any claims arising out of the manufacture, use or sale of its products shall be for the buyer's purchase price.

Revised August 24, 2001

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Enterprise Ruduits 3382





## Waste Pre-Acceptance/Approval Letter

Date 9/28/2007

Dear Mike Tomerlin

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2382

Generator: Enterprise Products Operating, L.P. (Morgan Point Facility)

Address: 1200 North Broadway

LaPorte, TX 77571

**Waste Information** 

Name of Waste: Non hazardous sludge

**TCEQ Waste Code #:** 00116072

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Sludge from bottom of Tank 209

Color: dark

Odor: slight

pH: neutral

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

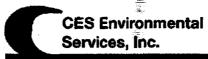
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	rator Information			
Company:		perating LLC (Morgans Po	oint Complex)	
Address:	1200 North Broadway			
City, State, Zip:	Laporte, TX 77571-30	)31		
Contact:	Stephen J. Craig		Title:	Environmental Scientist
Phone No:	281-385-4396		Fax No:	281-385-4532
24/hr Phone:	713-320-4591			
U.S. EPA I.D. No:	TXD008084238			
State I.D.	30282		SIC Code:	na
	g Information - Sam		~ ·	
Company:		rating LLC (Morgans Poin	it Complex)	
Address:	PO Box 573			
City, State, Zip:	Mont Belvieu, TX 7758			
Contact:	Accounts Payable	Title:		
Phone No:	281-385-4200	Fax No:	<del></del>	
SECTION 3: Gener	ral Description of the W	aste		
Name of Waste: No Detailed Description		Waste: Sludge from botto	om of Tank 209	1
Physical State:	Liquid C	Sludge   Filter Cake	Powder Combination	
Color: dark	Odo	r: <u>slight</u>		
Specific Gravity (wa	nter=1): <u>1.2</u>	Density: <u>8.4</u> lbs/gal		
Layers:	Single-phase	Multi-phase		
Container Type:	⊠ Drum 🗆	☐ Tote ☐	Truck	Other (explain)
Container Size:	55 gal			band Company
Cultante Dans	MM_Mm.			<del></del>
Frequency: Number of Units (co	☐ Weekly ☐	Monthly Other:	Quarterly	☐ Yearly
Texas State Waste C				
			1 1	
Proper U.S. DOT Si		Non RCRA/Non DOT		
Class: NA	UN/NA:	NA	PG: NA	RQ: NA
Flash Point NA		eactive Sulfides Amg/i	Reactive Cy NAmg/I	anides Solids 95-98%
Oil&Grease	TOC		Copper	Nickel
NAme/I	NAme/I		NAme/I	NAme/I

## **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Solids (dirt, sludge)	95-98	%
Water	25 7-5	%

### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analytical #7080913

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): none

### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	
TCLP Volatiles:	X
TCLP Semi-Volatiles:	$\overline{\mathbf{x}}$
Reactivity:	$\overline{\mathbf{x}}$
Corrosivity:	$\overline{\mathbf{x}}$
Ignitability:	X

Authorized Signature:

### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\boxtimes$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Printed Name/Title: Stephen J. Craig		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Approved Rejected  Approval Number: 2382	Process Facility Info	iormation: ISL Idnum

Date: September 25, 2007

## SECTION 10: Waste Receipt Classification Under 40 CFR 437 ⊠ NO Is this material a wastewater or wastewater sludge? WES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations

Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L l: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
	П	Organics Subcategory

## **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

# Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

**CES Environmental Services** 

4904 Criggs Rd Houston, TX 77021 Phone: (713) 676-1460 Fax:

(713) 676-16/6

Attn:

**Dana Carter** 

- CERTIFICATE OF RESULTS -

MES Lab#:

7080913

Client Sample ID:

Tank 209 Sludge

Project#: Enterprise MP

Sample Collect Date: 8/30/2007 @ 1:25:00 PM

Sample Type:

Comp

Sample Receipt Date: 8/31/2007 @ 11:10:00 AM

Test Group / Method		*** ·					
BTEX Method: SW-846 8021B		MDL		Result	Units	Analyst: HDe Date / Time	G
Benzene		0.5		< 0.5	mg/kg	9/3/2007 /	3:39 PM
Toluene		0.5		< 0.5	mg/kg	9/3/2007 /	3:39 PM
Ethyl benzene		0.5		< 0.5	mg/kg	9/3/2007 /	3:39 PM
M+P-Xylene		0.5		< 0.5	mg/kg	9/3/2007 /	3:39 PM
o Xylene		0.5		< 0.5	mg/kg	9/3/2007 /	3:39 PM
TCLP Metals (8) Method: SW-846 6010B	: 	MDL	RL	Result	Units	Analyst: JK Date / Time	
Arsenic		0.014	5	< 0.014	mg/L	9/6/2007 /	4:32 PM
Barium		0.0005	100	1.20	mg/L	9/6/2007 /	4:32 PM
Cadmium		0.002	1	< 0.002	mg/L	9/6/2007 /	4:32 PM
Chromium		0.002	5	0.014	mg/L	9/6/2007 /	4:32 PM
Lead		0.005	5	< 0.005	mg/L	9/6/2007 /	4:32 PM
Selenium		0.024	1	< 0.024	mg/L	9/6/2007 /	4:32 PM
Silver		0.002	5	< 0.002	mg/L	9/6/2007 /	4:32 PM
TCLP Mercury Method: SW-846 7470A		MDL	RL	Result	Units	Analyst: AM Date / Time	
Mercury		0.0002	0.2	0.181	mg/L	9/24/2007 /	6:42 PM
TCLP Benzene Method: SW-846 8260B		MDL	RL	Result	Units	Analyst: HD0 Date / Time	<b>,</b>
Benzene	<i>.</i>	0.005	0.5	< 0.005	mg/L	9/1/2007 /	11:56 PM
Mercury (RCRA, Automated CV Method: SW-846 7471A	AA)	MDL		Result	Units	Analyst: AM Date / Time	
Mercury		0.717		343	mg/kg	9/20/2007 /	4:37 PM

Report Date: 25-Sep-07

Page 1 of 2

## - CERTIFICATE OF RESULTS -

MES Lab#:

7080913

Client Sample ID:

Tank 209 Sludge

Project#: Enterprise MP

Sample Collect Date: 8/30/2007 @ 1:25:00 PM

Sample Type:

Comp

Sample Receipt Date: 8/31/2007 @ 11:10:00 AM

Flags: ,H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Tuesday, September 25, 2007

Date

% REC

2814764406

SURROGATE SPIKE RECOVERY FOR VOLATILES

7080913

### **MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT**

Dibromofluoroi Toluene-d8 4-Bromofluoroi								95.2 100.0 96.4		
ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L		CCV %REC	MS %REC	MSD %REC	RPD
Arsenic	< 0.002	94	94	0.7	< 0.002	2	91	76.4	77.2	1.04
Barium	< 0.002	105.0	105	0.43	< 0.002	2	101	65.2	67.7	3.8
Cadmium	< 0.001	109.4	110.9	1.32	< 0.00	1	107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.00		103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	2	107	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.000		102.0			
Selenium	< 0.024	108.1	91.4	16.7	< 0.024		<b>8</b> 7	64.9	61.8	5.0
Silver	< 0.001	110	109	0.91	< 0.001	1	104	73.4	75.6	3.06
ANALYTES	METHOD 8021B	MB mg/kg		MS %REC	MSD %REC	RPD		STD %REC	·	
Benzene		< 0.5		90.8	91.0	0.22		89.6		
Toluene		< 0.5		100.0	101.0	1.00		98.9		
Ethylbenzene		< 0.5		99.8	104.0	4.12		99.7		
m+p Xylene		< 0.5		102.0	112.0	9.35		110.3		
n-Xylene		< 0.5		97.3	108.0	10.42		103.2	٠	
SURROGATE	SPIKE RECO	VERY FOR	BTEX					% REC		
4-Bromofluoro	benzene							105.3		

### Standards Utilized:

BTEX: 5-point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene.

Key to QA Abbreviations

MS=Matrix Spike RPD=Relative Percent Deviation LCS=I aboratory Control Standard CCB=Continuing Calibration Blank ML=Minimum Level of Quantitation MSD=Matrix Spike Duplicate MB=Method Blank **CCV=Continuing Calibration Verification** %Rec=Percent Recovery

Signature:

Holland D. Gilmore / Laboratory Director

September 7, 2007

MATRIX

CESENVIRONMENTAL Services Inc.

YOUR PROJECT VAME:

STATE

GRAS/COMP.

09/26/2007

P.02

1-800-771-4NES

(281) 476-4534

Fax (281)-476-4406

REMARNS

SETECTION LIMITS SPECIAL LINES REQUISED

Please sinte one il Yes,

welled editorib eastly

TURNAROUND TIME

- CHAIN OF CUSTODY

NUMBER OF CONTAINERS

Mercury Environmental Services
6913 Hwy. 225 - Deer Park, TX 77536

PARAMETERS FOR ANALYSIS

**MES** 

EPAHO107001853

84/84

COMPANI ADDRESS:

CONTACT PERSON'S NAME

CONTACT PERSON'S PHONE

YOUR SAMPLE DESCRIPTION

P.02

1676

713 676

05/05

PAGE

	COMPANY NAME: (BILL TO:) CESTO	Vironne	Mal	Scruk	esInc	} 1	ME						CUST		1-800-771-4MES (281) 476-4534
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	CONTACT PERSON'S NAME: 11271	a 000 1		113-67	10-1101			\Q	The Denter	· <b>煮</b> /	• /		/	£ /	TURNAROUND TIME
	CONTACT PERSON'S PHONE: 11.0	019700-1			<u> </u>			छं∕ .	5	Ĕ/				§ / 5	Standard
2	YOUR PROJECT NO.: YOUR P.O.		1K20	OJECT NAME:		1/17	서 출	<u>ş</u> \ ĕ	Ž &	2/			$-/\frac{g}{8}$	I Jour	OETECTION LIMITS  SPECAL LIMITS REQUIRED
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	YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	460	12		[2]	• [			\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	PRE	Please circle one, if Yes, please describe below or include separate
	Tank 209 Sludge	Cama	8/30	1250	Studen	JY	X	V	V						sheet detailing requirements.
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6	PERSON TAKING SAMPLE SIGNATURE (8 Prini No.	/ 7	orce	xorc	REL (Sign	A LU	284: NOV	CC	wt	h	DAT S	E 131	TIME	Afri	CETYED SY:
	RELINGUISHED BY:	DATE TIME	RECEIVED (Signature)	BY:	PIEL (Sign	ANDUISHE(	D <b>8</b> Y:				DAT	E	TIME		CERVED BY:
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	Sample Remainder Disposal				01	Request l	Leb To E	)ispose	OI All S	anple R	emaind	ers	-	· <del>.</del>	
	D Return Sample Remainder To Client Via				(Sig	nabure}							(	Date)	

pH: neutral



# Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Lisa Gilbreath

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2383

Generator: Houston Marine Services, Inc

Address: 850 South Lynchburg Rd.

Baytown, TX 77520

## Waste Information

Name of Waste: Bilge oil and water

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Removal of oil from ship bilge

Color: black Odor: oil like

Physical State:

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

612

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener					
Company:	Houston Marine Se				
Address:	850 S. Lynchburg I				
City, State, Zip:	Baytown, TX 7752	(0			
Contact:	Terra Keen		Title:	Dispatch Contact	
Phone No:	281424-2525		Fax No:	281-838-1318	
24/hr Phone:	CES-713-676-1460	)			
U.S. EPA I.D. No:	TXR000024570				
State I.D.	38185		SIC Code:		
SECTION 2: Billing Company: Address: City, State, Zip: Contact:	g Information – 🏻 S	Title:			
Phone No:		Fax No:			
	ral Description of the	Waste			
Name of Waste: <u>Bill</u> Detailed Description		ng Waste: Removal of oil	from ship bilge		
Physical State:	🛭 Liquid	Sludge	Powder		
. Harama Oscaros	☐ Solid	Filter Cake	Combinatio		
	□ Sunu	I Finer Cake	Combinatio		
Color: Black	C	dor: oil like			
Specific Gravity (wa	ater=1): <u>.9</u>	Density: 8 lbs/gal			
Layers:	Single-phase	Multi-phase			
. •		_ •			
Container Type:	☐ Drum	☐ Tote □	Truck	Other (explain)	
Container Size:			5000	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
Container Size.	V 41		<u> </u>	· · · · · · · · · · · · · · · · · · ·	
es district					
Frequency:	☐ Weekly	⊠ Monthly [	<b>Quarterly</b>	☐ Yearly	
Number of Units (co	ontainers): <u>4</u>	Other:	• .		
Texas State Waste	Code No: NA	A-Recyclable Material			
Proper U.S. DOT S	hipping Name:	Flammable liquids, i	1.o.s, 3, UN 1993	, PG-II	
Class: 3	UN/N.	A: UN 1993	PG: II	RQ: NA	
		<del></del>			
Flash Point	рH	Reactive Sulfides	Reactive C		
0s/140	neutral	Omg/l	<u>0mg/i</u>	<u>&lt;2</u> %	
Oil&Grease	TOC	Zine	Copper	Nickel	
>1500ma/l	\4500mm/l	\0ma/2	Oma/I	Omaß	

### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE  The waste consists of the following materials	Concentration  Ranges are acceptable	Units or %
Diesel	10-30	%
Gasoline =	10-30	%
Oil	20-40	%
Water	10-60	%
Misc. Light Ends	10-20	%
mioc. Light Lifes	10-20	-

### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level C

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. CES Analysis

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	<u>X</u>
Ignitability:	X

**Authorized Signature:** 

### SECTION 9: Generator's Certification

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Date: 28Sept2007

Printed Name/Title: Lisa Gilbreath/Environmental Complianc	e Manager ·
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	0-10% water pay 154
Compliance Officer: Robber Chyd	Additional Information: 20-30 11 101C
Date: 9-28-07 (pproved) Rejected	30-40 64 40-60 13¢
Approval Number: 2383	

## Is this material a wastewater or wastewater sludge? If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/E, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

Oils Subcategory

Organics Subcategory

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



Free if C 30% Hzo TO K - Truns

# Sample Evaluation Form

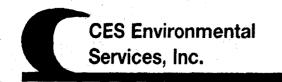
17 30 % 20.40-6 d

Sample ID# 223

Date 9 1 27 07

Please Complete This Section

7700	Istan Marine Service
	E/Bilge oil
I	ecoust from Boat Dilge
Number of Samples :	Submitted By:
Analysis To Be Completed : CC	Mowater Pun Flash
Turnaround Time :	No water
Other :	
<u> </u>	
	( Lab Use Only )
4	
Sample Results : <u>Pass</u>	Word Tect 2500 ppm
1 November 1980	
Suggested Method of Treatment:	Mord Tect 2500 ppm  ob water 30° - Flash 90° f  SG 0.9
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ob water 30° - Flash 90°F
Suggested Method of Treatment:	ob water 30° - Flash 90°F



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Marty Goodpasture/Joe Hawkins

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2384

Generator: Enterprise Products Operating (Substation-Texas City)

Address: 700 14th Street South

Texas City, TX 77590

### Waste Information

Name of Waste: Natural gas tank bottoms and tank rinse

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Cleaning of natural gas tank

Color: yellow/brown

**Odor:** slight light ends

pH: neutral

**Physical State:** 

Incompatibilities: Oxidizers

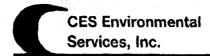
Safety Related Data/Special Handling:

Level C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 ISWR No: 30900

U.S. EPA ID No: TXD008950461

SECTION 1: Generator Information  Company: Enterprise Products Operating LLC (Texas City Terminal)  Address: 700 14th Street South  City, State, Zip: Texas City, TX 77590  Contact: Joe Hawkins Title: Manager	
Address: 700 14 <sup>th</sup> Street South  City, State, Zip: Texas City, TX 77590  Contact: Joe Hawkins Title: Manager	
City, State, Zip: Texas City, TX 77590  Contact: Joe Hawkins Title: Manager	
Contact: Joe Hawkins Title: Manager	<del></del>
Phone No: 409-945-6622 Fax No: 409-945-6761	
24/hr Phone: CES-713-676-1460	
U.S. EPA I.D. No: TXD000838698	
State I.D. 36472 SIC Code: 486910 (NAICS)	
SECTION 2: Billing Information - Same as Above	
Company: Enterprise Products Operating LLC	
Address: 11750 Almeda  United Ty 77045	
City, State, Zip: Houston, TX 77045  Contact: Marty Goodpasture Title: Manager	·
Contact:         Marty Goodpasture         Title:         Manager           Phone No:         832-347-4527         Fax No:         713-803-2250	
Figure 140. 632-347-4327 Fax 140: 713-803-2230	<del></del>
SECTION 3: General Description of the Waste	
SECTION 5. General Description of the Waste	
Name of Waste: Natural Gas Tank Bottoms and tank rinse	
Detailed Description of Process Generating Waste: Cleaning of natural gas tank	
Physical State:	
Solid Filter Cake Combination	
Color: yellow/brown Odor: slight light ends	
Specific Gravity (water=1): 95 Density: 8 lbs/gal	
opecine Gravity (water 1): 25 Density: 0 105/gat	
Lavers: Single-phase Multi-phase	
Layers:   Single-phase   Multi-phase	
Container Type:	
Container Type: Drum Tote Truck Other (explain)  Container Size: 5000 gal	
Container Type:	
Container Type: Drum Tote Truck Other (explain) Container Size: 5000 gal  Frequency: Weekly Monthly Quarterly Yearly Number of Units (containers): 4 Other:	
Container Type:	
Container Type: Drum Tote Truck Other (explain) Container Size: 5000 gal  Frequency: Weekly Monthly Quarterly Yearly Number of Units (containers): 4 Other:	
Container Type: Drum Tote Truck Other (explain) Container Size: Monthly Quarterly Yearly  Number of Units (containers): 4 Other: Texas State Waste Code No: NA-Recyclable Material  Proper U.S. DOT Shipping Name: Flammable liquid, n.o.s., 3, UN 1993, PG-III	
Container Type: Drum Tote Truck Other (explain)  Container Size: Monthly Quarterly Yearly  Number of Units (containers): 4 Other:  Texas State Waste Code No: NA-Recyclable Material  Proper U.S. DOT Shipping Name: Flammable liquid, n.o.s., 3, UN 1993, PG-III	
Container Type: Drum Tote Truck Other (explain)  Container Size:	
Container Type: Drum Tote Truck Other (explain)  Container Size: Soud gal  Frequency: Weekly Monthly Quarterly Yearly  Number of Units (containers): 4 Other:  Texas State Waste Code No: NA-Recyclable Material  Proper U.S. DOT Shipping Name: Flammable liquid, n.o.s., 3, UN 1993, PG-III  Class: NA UN/NA: NA UN/NA: PG: NA  Flash Point pH Reactive Sulfides Reactive Cyanides Solids	
Container Type: Drum Tote Truck Other (explain)  Container Size:	

### SECTION 4: Physical and Chemical Data

	COMPONENTS TABLE		Concentration	Units
	The waste consists of the following mate	rials	Ranges are acceptable	or %
Water			90-98	%
Light Ends			2-10	%
dirt/scale			0-3	%
Soap			0-3	%
				1

#### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Level C

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. <u>CES Analysis</u>

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): Oxidizers

### SECTION 8: Generator's Knowledge Documentation

Printed Name/Title: Wesley Heefner / Field Environmental Engineer

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	$\bar{\mathbf{x}}$
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	<u>X</u>
Ignitability:	X

Authorized Signature

### SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\boxtimes$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Date: 09/27/2007

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	,
Compliance Officer: Problem Plant	Additional Information: 127/9allen
Date: 9-28-07 Approved Rejected	Trans 70 co/Ar + FSC
Approval Number: 2384	

SECTION 10: Waste Receipt Classification Under 40 CFR	<u>437</u>	
Is this material a wastewater or wastewater sludge?   YES	⊠ NO	
If 'Yes', complete this section.		
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRIATE CATEGORY, GO TO THE	E NEXT PAGE.
Metals Subcategory: Subpart A		
Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equi		
Oils Subcategory: Subpart B		
Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	S	
Organics Subcategory: Subpart C		
Landfill leachate Contaminated groundwater clean-up from non-petroleum so Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	urces	

(1)	if the waste contains oil and grease at or in exce	ss of 100 mg/L, the waste should be class	ssified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 of the values listed below, the waste should be c		ted below in concentrations in excess
	Cadmium: 0.2 mg/L	and the second second	
	Chromium: 8.9 mg/L		
	Copper: 4.9 mg/L		
	Nickel: 37.5 mg/L		
(3)	If the waste contains oil and grease less than 100 nickel above any of the values listed above, the	<del>-</del>	
	Metals Subcategory		

## **SECTION 11: Additional Instructions**

Oils Subcategory

**Organics Subcategory** 

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



# Sample Evaluation Form

Sample ID #

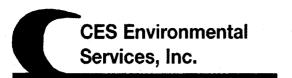
Date 9,26,07

Please Complete This Section	
Generator / Customer Name: Entruprise TX	city
Name or Type of Waste: Natura (645 Tau 6	130How - Wash weter
Process Generating Waste: (/ɛɾʊʊʊʊ / /  Number of Samples: Submitted By:	
Analysis To Be Completed: Flast Me, 27 - 1	refermine Recovery
Turnaround Time :	<u> </u>
Other:	
( Lab Use Only	)
Sample Results: Flash Print 83	)° F
Suggested Method of Treatment : 201 Pecove	ry of lightend
Suggested Price Range :	
Sample Results Reported to	
Test Completed By: 66 Date: 07 / 26 / 07	Time: 19:00 P

Pink - Processing Facility Copy

White - CES Salesperson Copy

Dyna Drill 2385 # 2385



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Eddie Garcia

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2385

Generator: Dyna Drill

Address: 4660 World Houston Pkwy

Houston, TX 77032

## **Waste Information**

Name of Waste: Non hazardous wastewater

**TCEQ Waste Code #:** 00141192

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Pressure test wastewater from pressure testing drilling pipe.

Color: clear to cloudy

Odor: none

**pH:** 4-10

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

CES Environmental Svcs.

7137488664

P.02



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	erator Information				
Company:	Dyna Drill	·			
Address:	4660 World Houston	Parkway			
City, State, Zip:	Houston, TX 77032-2	455			
Contact:	Eddie Garcia		Title:	HSE Manager	
Phono No:	832-452-9570		Fax No:	281-921-1908	
24/hr Phone:	832-452-9570		<del></del>		
U.S. EPA I.D. No:	TXR000033084	<del></del>	<del></del>		
State I.D.	86208		SIC Code:	$\Lambda$	
				1041	
SECTION 1. Billio	g Information – 🔀 San	sa an Albava			
Company:	IS THIS MATION - W 241	IE 43 AUUVE			* *
Address:					
				<del></del>	
City, State, Zip:	<del></del>	M*()		<del></del>	<del></del>
Contact:		Title:		<del></del>	
Phone No:		Fax No:		<u>.                                    </u>	
SECTION 3: Gone	ral Description of the W	<u>aste</u>	9000		
				•	
Name of Waste: No	on-Hazardous Waste Wat	et ·			
<b>Detailed Descriptio</b>	n of Process Generating	Waste: Pressure lest wa	aste water from p	pressure testing drilling pi	pe.
	, , , , , , , , , , , , , , , , , , ,				
Physical State:	∠ Liquid	Sludge	Dowder	1 A	
	□ Solid [	Filter Cake	Combination	D	
	point		COMPINATION	••	•
Color: Clear to Clou	.t 04.	r: None			
COIOT: Clear to Clor	out Out	ir. Noile			,
	•				
Specific Gravity (w	eter=1): <u>1</u>	<b>Density: <u>8-8.5</u> lbs/gal</b>			•
Layers:	Single-phase	Multi-phase			
•			•		
Container Type:	Drum [	☐ Tote	Truck	Other (expl	lain)
	D1000 [		_	C Other (exh	am
Container Size:			<u>5-8000</u>		
Frequency:	☐ Weekly [	Monthly 2	Quarterly	☐ Yearly	
Number of Units (co		Other:	3 4		
				<b>**</b>	
Texas State Waste (	Code No: 00141	192		4.7	
Proper U.S. DOT S	hinning Name	Non-RCRA Non-Dr	OT Regulated Wi	atse Water (Pressure Test	Waste Woter)
rioper bibli DOI 3	•• 9		_		
Class: Na	UN/NA:	Na	PG: Na	RQ:	Na Na
				<del></del> :	· <del></del>
		·			
Flash Point	pH Re	eactive Sulfides	Reactive C	yanides Solids	
>200	1	ng/l	Qmg/l	0-2%	
Oil&Grease	TOC	Zinc	Copper	Nickel	4
<1500mg/l	12-15000 mg/i	Qmg/l	Qmg/l	Qmg/l	. <u> </u>
		<del></del>	<del></del>		

CES Environmental Svcs.

7137488664

P.03

#### SECTION 4: Physical and Chemical Data

	The waste consists of the following materials		ncentration are acceptable	or %	
Water			80-98	to with the	%
Coolant			1-2		%
Oil			0-1		%
	1				

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level D PPE

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. TCLP Analysis

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

None None

## SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metala:	
TCLP Volatiles:	X-Benzene Only
TCLP Semi-Volatiles:	<u>x</u>
Reactivity:	<u>X</u>
Corrosivity:	<u>X</u>
Ignitability:	X

#### SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\boxtimes$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Eddie Sunia	Date: 9/38/07
Printed Name/Title: Edic Garcie / HSE Mav.	7
	•

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Kolhen Then A.	Process Facility Information: Check PH includes up to 15,000 TOC
Date: 10-1-07 Approved Rejected	.12/gal- \$250 min Trans \$69/hr + FSC
Approval Number: 2385	

281 227 1250

CES Environmental Svcs.

7137488664

S	ECTION 10: Waste Receipt Classification Under 40 CFR 43	<u>7</u>	
Is	s this material a wastewater or wastewater sludge? 🗵 YES	□ NO	
I	f'Yes', complete this section.		
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	PRIATE CATEGORY, GO TO	O THE N
Mei	tals Subcategory: Subpart A		1 to 2
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes		
	Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury		4 6g
	Cyanide-containing wastes greater than 136 mg/! Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from elec	troplating or phosphating oper	rations
	Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equip	ment	
Oils	Subcategory: Subpart B		
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products		: : :
	Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes		
	Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes		
Orge	nnics Subcategory: Subpart C		
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sou Solvent-bearing wastes Off-specification organic product	rces	
	Still bottoms  Byproduct waste glycol  Wastewater from paint washes  Wastewater from adhesives and/or epoxies formulation		
7	Wastewater from organic chemical product operations  Tank clean-out from organic, non-petroleum sources		4) - - 

09/28/2007 15:55

#741 P. 005/012

SEP-28-2007 15:24

CES Environmental Svcs.

7137488664

P.05

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Oils Subcategory

Organics Subcategory

### SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

7137488664 :2814716821

P.06



## ENVIRON EXPRESS LABORATORIES, INC.

\$ 425.00

401 N. 11th. 54 La Porte, TX 77571 181.471.0951 PAX:281.471.5821

**CERTIFICATE OF ANALYSIS NO:** 

9-28-07; 10: 28AM; ENVIRON

62349.01

CES Environmental Svcs.

1of 3

Customer: CES Env. Svcs.

Sample ID: Pressure Test

Waste Water

Environ ID: 62349.01 Sampled: 09-25-07

Project ID: Dyna Drill Project Loc: Hou., TX

Matrix: Waste Water

Received: 09-25-07

Charge/P.O.: A217601753

Туре:

Reported: 09-28-07

ANALYTE/	R	ESULT	UNITS	REG.	MOL	TEST	TEST	DATE	TIME
PARAMETER				LIMIT	1	METHOD	BY		
BENZENE									
Benzone - TCLP	<	0.001	mg/l	-	0.001	SW846.6021B	DMB	09-26-07	20:21
TPH			_	]					1
nC6 to nC12 QRO	<	50	mg/l		50	TCEQ 1005.3	DB	09-26-07	20:27
> nC12 to nC28 DRO	1.	205	mg/l	-	50	TCEQ 1005.3	DB	09-26-07	20:27
> nG28 to nG35 ORG		238 _	mg/l		50	TCEQ 1005.3	BO	09-26-07	20:27
TPH (Total nC6 to nC35)	7	443	mg/l	<b>-</b> '	50	TCEQ 1005.3	DB	09-26-07	20:27
METALS - TCLP	- [					EPA SW846.1311	MN	09-25-07	1
Antimony	<	0.1	mg/l	1.0	0.1	EPA SW846.6010B	JA	09-26-07	13:00
Arsenic	<	0.1	mg/l	1.8	0.1	EPA SW846.6010B	JA	09-26-07	13:00
Barlum	<	2.0	mg∕l	100	2.0	EPA SW846.6010B	JA	09-28-07	13:00
Beryllium	<	0.05	mg/l	0.08	0.05	EPA SW846.6010B	JA	09-26-07	13:00
Cadmium	.   <	0,1	mg/l	0,5	0.1	EPA SW846.6010B	JA	09-26-07	13:00
Chromium	`	0.2	mg/i	5.0	0.1	EPA SW846.6010B	JA	09-26-07	13:00
Lead	4	0.1	mg/l	1.5	0.1	EPA SW048.6010B	JA	09-26-07	13:00
Nickel	Į.	0.1	mg/l	70	0.1	EPA SW846.6010B	JA	09-26-07	13:00
mulnelei	<	0.1	mg/l	1.0	0.1	EPA SW846.6010B	JA	09-26-07	13:00
Silver	<	0.2	mg/l	5.0	0.2	EPA SW846.6010B	JA	09-28-07	13:00
dercury	۱ ،	0.02	mg/l	0.2	0.02	EPA 6W846.7470A	MN	09-26-07	10:00

Kay: TCLP - Tarkiny Characteristic Leaching Procedu AEG - Regulatory Limit (User Should Verify)

EPA - Environmental Protection Agency

MOI. - Method Overhation Life!

TCEO - Yanes Commbales on Environmental Oc RCVD - As Received (Well) Basia TPH - Total paireleum Hydronarbona

GRO - Gascilne Range, DAO - Closel Range, ORO - Ok Range

mgf - Milgrams per Liter (PPM Valuma) mg/ng - Miligrams per Kilogram (PPM Wolghi) John Kellen

John Keller, Ph.D **Laboratory Director** 

		•																	ÀS			
		CHAIN OF CUSTODY	Resurs Ya					in	vaice	To:	/	_				•				NG O	AYS) CIRCLE ONE	
.0.	ENVIRON		Company:	<u>~~ e</u>				c	ompa	my:	乀								LAB LOT #	_	COC Present?	
Ռ.	Dilette Chatalanda	Page of	Address:					<del>-</del>  _	ddres	<u>s:</u>		<del>)</del>		71					Shipment Sealed?		Samples Sealed	
4	ENVIOON EVOR	ESS LABORATORIES, INC.	44 04 Chy	(no:	C.C.S. States		ip:	-	ily.		/		20	<del>Z</del>	ale:	·	Zp:		Received on Ice?		Samples Intact? (Yes) No	
48866	101 North 11th S	81. / La Porte. Texas 77571-3115	I Haitle		74		707		none:										Vey No Cooler Temp. (°C)		Preservative Shown?	Alleria, II
· •	281) 471-09517 sx: (281) 471-51	(800) 880-0156 821 / After Hours: (261) 844-2308	Phone: 713 - 1 Fax: 7(3	- 6 76 26 3-	-(6	T.		F	ax:										Hold Time OK?		Ves (NG) NA Res CO Check OK?	
713	mail: environex	p@aol.com	e-Mail: ple: Remarks:	Contr.	Type	GI	$\neg \tau$	╬	O#:	_	7	Т	-19	luateli	: [_	1_			RE) No		Yes No NA	
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	EEL USE ONLY	SAMPLE ID.	DATE/TIME	MATRIX	C)OMP	Œ X	Ě		_	VOLATILES	SEMI-VOLS	<b>*</b>	वाय	1	į							i
	(LAB NO.)	SAMPLE ID.	SAMPLED	<u> </u>	<u> </u>	E E	٨	Ē	A H	\$		2	F	듸	_	4		1_	<u> </u>			Į
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SEP		P:Plastic G:Glass V:VOA Glass O	:Other		_			11		1:lc	e(<4°	C) 2:1	HCL :	3:425	04 4:	HNO3	5:NaC	OH 6.	VaOH-Zn Acetate	7:Na2	S203 8:None	1

09/28/2007 15:56

#741 P. 008/012

7137488664

128:47:8421

P.08

SEP-28-2007 15:24 CES Environmental Svcs.

9-28-07; 10:56AM; Environ

**ENVIRON EXPRESS QUALITY CONTROL REPORT** 

ANALYSIS: BTEX	METHOD: EPA SW846/5030/8021B	MATRIX: LEACHATE
MANALYSIS: BTEX	IMPINCIN PPA SWINGISMINING	INTELLEMENT I CAMMATCI
INITALISIS. DIEN	INCHINCE. LI A STICHOUGHOUZID	INDATED A SENCERATED

ANALYST:	- d b	TUNITS:		NO.SAMPLES:	44 7
IANAI VSI	dmb	II INII S	DVA/I	INO.SAMPLES:	17 1
	unio	1011113.	mg/l	IMO OVINILITES.	,,,,

SAMPLES:	62299-01	62312-01	62313-01	62313-02	62321-01	62322-01	62331-01	82331-02
	62331-03	62333-01	62349.01	11				

MATRIX	MATRIX	SPIKE	MS	MS	MSD	APD	CCV	MB	QC LIMI	TS (%)
62299-01	RESULTS	ADDED	RESULTS	REC	REC	J	REC	L	REC-RANGE	RPD
BENZENE	0	100	92	92	94	2	69	0	60 - 120	20
TOLUENE	0	100	90	90	91	1	80	0	60 - 120	20
EI-BENZENE	0	100	91	91	91	1_1_	91	0	60 - 120	20
XYLENES	0	300	292	97	98	1	97	0	60 - 120	20
MTBE	0	100	86	86	<b>8</b> 5	1	81	0	60 - 120	20

KEY:

BTEX - Benzene (BENZ), Toluene (TOL)

Ethylbenzeno (ETBZ), Xylenes (XYLS)

MTBE - Methyl-tert-buty) either

CCV - Continuing Calibration Verification

MB - Melhod Blank

MS - Main's Spike

MSD - Matrix Spike Duplicale

RPD - Relative Percent Difference

REC - Recovery Percent

9/27/07

DATE

Lab.Dir/QA-QC Mgr.

#741 P. 009/012

SEP-28-2007 15:25

9-28-07:10:55AM:Environ

CES Environmental Svcs.

7137488664 : 2814715821

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	TPH	METHOD:	TNRCC 1005.3
بعدات والمستثبا			

ANALYST: dmb	DAATRIV. COU	(A) TO	10.44 (b) FO. 40
ANALYST: dmb	IMATRIX: SOIL	UNITS: mg/kg	ISAMPLES: 13
W			120. 10

SAMPLES:	62310-01	62312-01	62313-02	62316-01	62319-01	62319-02	62319-03
	62318-04	62318-05	62319-06	62320-01	82321-01	62322-01	62349.01

GC SAMPLE	MB	CCV	rca	MS	MSD	MS-MSD	QC LIMITS	
62319-02	mg/kg	REC	REC	REC	REC	RPD	REC	RPD
GRO RESULT	< 50	98%	80%	89%	62%	9%	75-125	20
DRO RESULT	< 50	103%	93%	98%	87%	12%	75-125	20

09-28-07

JOHN KELLER, Ph.D, Lab.Dir./QA-QC Mgr-

DATE

KEY:

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organica

DRO - Diesel Range Organics

CCV - Continuing Calibration Verification

MB - Method Blank

LC9 - Laboratory Control Sample

MS - Matrix Spiles

MSO - Matrix Spike Duplicate

RPD - Relative % Difference

REC - Recovery %

7137488664

SEP-28-2007 15:25 CES Environmental Svcs.

## ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS: METALS			METHOD: EPA SW846/6010				MATRIX: LIQUÍD		
ANALYST:	JA	DATE	09.28.07	UNITS:	PPM (mg/l)		NO.SAMPLES:	11	
SAMPLES:	62331.01	62331.02	82331.03	62345.01	62945.02	62345.03	82346.01	62349.01	
	62348.02	62348.03	82349.01	-1 - 1					
Ĺ				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS	BATCH ID: 62331.01

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	AEL.	CONT.	METHOD	OCU	
Matrix	RESULTS	ADDED	PESULTS	%	DUP. %	OIFF. %	CALIB.	BLANK	RECOV.	DIFF.
Aleenic	0.00	. 5	4.69	94	95	1	93	0	75 - 125	20
Barium	0.00	5 .	4.74	95	95	1	98	0	75 - 125	20
Cedmium	0.00	5	4.72	84	95	0	100	0	75 - 125	20
Chromium	0.00	5	4.65	93	94	1	94	0	76 - 125	20
Lead	0.00	5	4.57	91	91	0	96	D	75 - 125	20
Selanium	0.00	5	5.11	102	104	2	99	0	75 - 125	20
Silver	0.00	5	4.57	91	86	4	69	0	75 - 125	20



09/28/2007 15:56 #741 P.011/012

SEP-28-2007 15:25 CES Environmental Svcs. 9-28-07; 10:58AM; Environ

7137488664

P.11

**ENVIRON EXPRESS QUALITY CONTROL REPORT** 

i	ANALYSIS:	MERCURY	METHOD:	EPA SW848/7471A	MATRIX: LIQUID

BANALYSTS: MN	DATE:	09.26.07 IUN	TS: mg/i	NO.SAMPLES:	4
		40.20.07	TO: HIGH	Troubally a.g.	

SAMPLES:	62345.01	62345.02	62345.03	62348.01	62348.01	62348.02	62348.03	82349.01

## MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE	SAMPLE	SPIKE	SPIKE	RECOV.	RECOV.	AEL.	CONT.	METH.	CORR.	OC LI	VITS
Matrix	RESULTS	ADDED	HESULTS	%	DUP. %	DIFF.	CALIB.	BLANK	COEFF	RECOV.	DIFF.
MERCURY	0.0D	0.002	0.002	100	100	0	100	0	1	60 - 120	20

Laboratory Director

EPAHO107001881



## **Material / Product Approval Letter**

Date 9/30/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2386

**Producer:** CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

## Material / Product Information

Name of Material / Product Oronite Tetramer Container Type:

### Detailed Description of Process Generating or Producing the Material / Product:

**Oronite Tetramer Product** 

Color: Gold

**Odor:** Slight Sulfur

pH: na

**Physical State:** 

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Inform	ation			
Company :	CES Environmen	ital Services, Inc.			
Address :	4904 Griggs Rd	4904 Griggs Road			
City, State, Zip :	Houston TX 7702	21			
Contact :	Matt Bowman		Т	itle :	
Phone No :	(713) 676-1460		F	ax :	
24 / HR Phone :					
U.S EPA I.D No :	na				
State I.D :	na		s	IC Code na	
		1			
SECTION 2: Billing	Information				
Company :	CES Environmen	ital Services, Inc.			
Address :	4904 Griggs Rd	4904 Griggs Road			
City, State, Zip :	Houston TX 7702	21			
Contact :			Т	itle :	
Phone No :	(713) 676-1460		F	ax:	
SECTION 3: Gener	al Description of th	e Material / Product		,	
Name of Mateira	/ Product : Oronit	te Tetramer		•	
Detailed Descrip	tion of the Proces	ss Generating or Pr	oducing the Material	/ Product:	
Oronite Tetramer	Product				
Physical State :	Lìquid	∭ Sludg€	Powd	er	
	Solid	Filter C	Cake 💹 Comb	ination	
Color :		Gold	Odor :	5	Slight Sulfur
Specific Gravity	(Water=1) ·	0.8	Density:	6.6	
opcomo ciavity	-				
Layers :	✓ Single-Pl	has 📓 Multi-l	Phase	•	
Container Type :	Drum	Tote	Truck 🕅 O	ther (explain)	
Container Size :	<u> </u>				
Number Of Units	· · · · · · · · · · · · · · · · · · ·	_			
Proper U.S. DOT	Shipping Name :	· 	Hydrocarbons, I	Liquid, N.O.S., 3, UN3291	JH
Class: 3	. 1	JN/NA: UN 32	295 PG:	111	RO O
Ciass	<del></del>	JIMA . 010 32	_ ,J		RQ: <u>∧∧</u>
Flash Poil	nt	pH R	eactive Sulfider	Reactive (ganid	Solids
>200		na	na	na	0 %
			<u></u>		
Oil and Gre	200	TOC	Zinc	Copper	Nickel

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Oronite Tetramer	100	%
SECTION 5: Safety Related Data		
f the handling of this material / product requires the use of special protective of standard PPE	equipment, please explain.	
SECTION 6: Attached Supporting Documents		
ist all documents, notes, data, and/or analysis attached to this form as part on MSDS	f the material / product profile.	
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any): Oxidizers		
SECTION 8: Material Producer's Certification		
The information contained herein is based on generator knowledge and/or above and attached description is complete and accurate to the best of my knowledge and that all knowledge are representative of all materials of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	owledge and ability to determine th wn or suspected hazards have bee	at no
Authorized Signature :	Date: 10/1/2007	
Printed Name / Title: not required /		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Special Pricing / Analytical Info	
Compliance Officer: Prabhakar Thangudu Pobbah Mya	Retain Sample No to required . Sell \$150	sting lgol
Date: 10/1/2007 Status: Approved Rejected	Recommended Treatment:	,
Approval Number: 2386		



Oronite

## **Material Safety Data Sheet**

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

## RM 50142

HYDroCarbons

Company Identification Chevron Oronite Company LLC 4800 Fournace Place Bellaire, TX 77401 United States of America

Transportation Emergency Response

Asia: Chevron Emergency Information Centre +(1) 510-231-0623

Australia: Oronite Australia 1 800 009 010

Europe: Oronite SA - Gonfreville Plant (33) 2 35 25 55 00

North America: CHEMTREC (800) 424-9300 or (703) 527-3887

South America: Chevron Oronite Brasil Ltda (24 hours) 55 11 4478-1200

**Health Emergency** 

USA: International collect calls accepted. (800) 231-0623 or (510) 231-0623

**Product Information** 

MSDS Requests: (877) 512-7200 Technical Information: (877) 512-7200 Product Compliance: (510) 242-4434

Oronite D-Tect®, OLOA®, OGA®, OFA®, ODA®, PARATONE®, and TFA® are registered trademarks of

the Chevron Oronite Company LLC.

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
C10-C18 Branched Olefins (Propylene Oligomer)	9003-07-0	100 %weight

#### SECTION 3 HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

- COMBUSTIBLE LIQUID AND VAPOR
- INHALATION MAY CAUSE NERVOUS SYSTEM EFFECTS
- MAY CAUSE LUNG DAMAGE IF SWALLOWED
- CAUSES SKIN IRRITATION
- TOXIC TO AQUATIC ORGANISMS

## IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin causes irritation. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response. Not expected to

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be harmful to internal organs if absorbed through the skin.

Ingestion: Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. May be irritating to mouth, throat, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.

Inhalation: Breathing this material at concentrations above the recommended exposure limits may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

#### SECTION 4 FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

Skin: Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, apply a waterless hand cleaner, mineral oil, or petroleum jelly. Then wash with soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

Ingestion: If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation: Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue.

Note to Physicians: Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

#### SECTION 5 FIRE FIGHTING MEASURES

See Section 7 for proper handling and storage.

#### FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Combustible Ilquid.

**NFPA RATINGS:** 

Health: 1

Flammability: 2

Reactivity: 0

#### FLAMMABLE PROPERTIES:

Flashpoint: (Pensky-Martens Closed Cup) 38 °C (100 °F) Minimum

Autoignition: 216 °C (420 °F)

Flammability (Explosive) Limits (% by volume in air): Lower: No data available Upper: No data

avallable

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

#### PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dloxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

#### SECTION 6 ACCIDENTAL RELEASE MEASURES

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Protective Measures: Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

#### SECTION 7 HANDLING AND STORAGE

Precautionary Measures: Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive force. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Fire hazard is greater as liquid temperature rises above 29C (85F).

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Wash thoroughly after handling.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.

General Storage Information: DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use. Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

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#### **ENGINEERING CONTROLS:**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Skin Protection: Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include: Chlorinated Polyethylene (or Chlorosulfonated Polyethylene), Nitrile Rubber, Polyurethane, Viton.

Respiratory Protection: Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

#### Occupational Exposure Limits:

Component	Agency	TWA_	STEL	Ceiling	Notation
C10-C18 Branched Olefins (Propylene Oligomer)	ACGIH	3 mg/m3	-		-
C10-C18 Branched Olefins (Propylene Oligomer)	OSHA Z-1	5 mg/m3		-	-

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Colorless to yellow Physical State: Liquid Odor: No Data Available pH: Not Applicable

Vapor Pressure: No data available Vapor Density (Air = 1): No data available Boiling Point: 176.1°C (349°F) - 320°C (608°F)

Solubility: Insoluble in water.

Freezing Point: Not Applicable

Specific Gravity: 0.78 @ 15.6°C (60°F)

Density: No Data Available

Viscosity: 1 cSt @ 40°C (104°F) (Estimated)

Coefficient of Therm. Expansion / F: No Data Available

#### SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid: Do not heat above flash point.

Incompatibility With Other Materials: May react with strong acids or strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Hazardous Polymerization: Hazardous polymerization will not occur.

#### SECTION 11 TOXICOLOGICAL INFORMATION

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Revision Date: September 15, 2006

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#### IMMEDIATE HEALTH EFFECTS

Eve Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

Skin irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for similar materials or product components.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

#### SECTION 12 ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

This material is expected to be toxic to aquatic organisms. The ecotoxicity hazard is based on an evaluation of data for the components or a similar material.

#### **ENVIRONMENTAL FATE**

Ready Biodegradability: This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material.

#### SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

### **SECTION 14 TRANSPORT INFORMATION**

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and modespecific or quantity-specific shipping requirements.

DOT Shipping Description: HYDROCARBONS, LIQUID, N.O.S., 3, UN3295, III

IMO/IMDG Shipping Description: HYDROCARBONS, LIQUID, N.O.S., 3, UN3295, III. (38C)

ICAO/IATA Shipping Description: HYDROCARBONS, LIQUID, N.O.S., 3, UN3295, III

2.

#### SECTION 15 REGULATORY INFORMATION

**EPCRA 311/312 CATEGORIES:** 

Immediate (Acute) Health Effects: 1. YES

Delayed (Chronic) Health Effects: NO

3. Fire Hazard: YES

Sudden Release of Pressure Hazard: NO

NO

5. Reactivity Hazard:

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#### REGULATORY LISTS SEARCHED:

01-1=IARC Group 1 01-2A=IARC Group 2A 01-2B=IARC Group 2B 02=NTP Carcinogen 03=EPCRA 313 04=CA Proposition 65

05=MA RTK 06=NJ RTK 07=PA RTK

No components of this material were found on the regulatory lists above.

#### CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

#### WHMIS CLASSIFICATION:

Class B, Division 3: Combustible Liquids Class D, Division 2, Subdivision B: Toxic Material -Skin or Eye Irritation

### SECTION 16 OTHER INFORMATION

**NFPA RATINGS:** 

Health: 1

Flammability: 2

Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

#### LABEL RECOMMENDATION:

Oronite Label Code: W9.

REVISION STATEMENT: This revision updates the following sections of this Material Safety Data Sheet:

2, 14.

Revision Date: September 15, 2006

#### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

ADDREVIATIONS THAT WAT HAVE BEEN OUT	LD IN THIS DOCUMENT.
TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Government Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	MSDS - Material Safety Data Sheet
CVX - Chevron	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Chevron Energy Technology Company, 100 Chevron Way, Richmond, California 94802.

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The above Information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Revision Number: 1

Revision Date: September 15, 2006

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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Bo McDonald

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2387

Generator: K-Solv

Address: 1015 Lakeside Drive

Channelview, TX 77530

## Waste Information

Name of Waste: Light end hydrocarbon and water

TCEQ Waste Code #: Recycle

Container Type:

**Detailed Description of Process Generating Waste:** 

Off spec light ends and water

Color: white/amber

Odor: low

pH: neutral

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. 041 011 2000 142ZT



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene		. 4			
Company:	K-80L				
Address:		eside Dr.			
City, State, Zip:	CHARREL		77530		
Contact:	BO, Mc Don	4(0	Title:	of mar	
Phone No:	281-452-5	5505	Fax No:	281-452-5523	
24/hr Phone:	281-433-89		<u>-</u>		
U.S. EPA LD. No:	TXROOGO	68908			
State I.D.			SIC Code:		
SECTION 2: Billin	g Information -	Same as Above		- -	
Company:	GUIF STAT	E ENU RONNER	tal solut	ions Inc,	
Address:	Pa Box 8	76			
City, State, Zip:	TOM BAIL	7X 77377			
Contact:	CHRUS ZAR	OENSIA Title:	MGB		
Phone No:	281-433 89		832-4	42-3247	
•			— <del></del>		1
SECTION 3: Gene	ral Description of th	e Waste			
1	ightend				
Name of Waste: 🕅	iyarocarbon a	nd water:		-· ^ 4	Ì
Detailed Description	n or Process General	ting Waste: OFF Spec	2 lightends	and water	P.
-					7
Physical State:	☑ Liquid	Sludge	Powder	4	1
	Solid Solid	Filter Cake	Combination	<b>n</b>	
Color: WHite Ar	Ber	Odor: Low			
/					
Specific Gravity (w	ater=1):	Density 187 lbs/ga	i		
		, ,			
Layers:	Single-phase	Multi-phase			
		<b>7</b> 333311 <b>7</b> 3343			
Container Type:	☐ Drum	☐ Tote	Truck	Other (expla	ia)
	<i>D</i> , will		11dek	Control (cypia)	,
Container Size:					
		•			
Frequency:	Weekly	Monthly	Quarterly	☐ Yearly	
Number of Units (c		Other:			
Texas State Waste	11.		_		
		recyclable.			
Proper U.S. DOT S	hipping Name:	Flammab	le Liovid	nos'	
Class: 2	UN/N	(A: UN) 1993	reliquid	RQ:	1
		00000	V	V L _	
· · · · · · · · · · · · · · · · · · ·					
Flash Point	pII	Reactive Sulfides	Reactive C		1
<u>&lt;140</u>	noutral	<u> </u>	mg/		
Oil&Grease	TOC	Zinc	Copper	Nickel mg/l	
<u> </u>	7100 mg/1		☐ mg/l	mg/l	

	Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Company Compan	- ::
The waste consists of the following materials	Ranges are acceptable	ог %
Lighten L-OIL, Cons. Alcohol	10-20	190
Lighten L-oil, Gos, Alcohol	80-90%	1%

SECTION 5: Safety Related Data	SECTION	5: Saf	ety Related	i Data
--------------------------------	---------	--------	-------------	--------

If the handling of this waste requires the use of special protective equipment, please explain.

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

## **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

## SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X_
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	
Corrosivity:	X_
Ignitability:	

## SECTION 9: Generator's Certification

The information contained herein is based on representative for the information contained herein is based on representative of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	7-5	Date: /2/5/	65	$\Rightarrow$
	10 -		. •	}-
Printed Name/Title:	17441			

CES USE ONLY (DO NOT WRITE IN THIS SPACE)		
Compliance Officer: Polyhur Eller d	Process Facility Information:	
Comprime Grades 17 647-1000	\$0.13/gailon top layer	
Date: 10-4-07 Approved Rejected	Dil of water, mix with his	ntends test
	100 of water	
Approval Number: 2387	\$0.03/gai/5,000TOC>5.00	o Tocksurin

## SECTION 10: Waste Receipt Classification Under 40 CFR 437

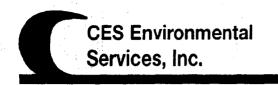
Is this material a wastewater or wastewater sludge?   YES	S 🚪 🛛 NO			,
If 'Yes', complete this section.				.
	- <del> </del>			
PLEASE CHECK THE APPROPRIATE BOX. IF NO AP	<b>PROPRIATE</b> C	ATEGORY, GO	) TO THE NE	XT PAGE
letals Subcategory: Subpart A		·		
Spent electroplating baths and/or sludges				
Metal finishing rinse water and sludges				
Chromate wastes				
Air pollution control blow down water and sludges				-
Spent anodizing solutions		ģ.		
Incineration wastewaters				
Waste liquid mercury				
Cyanide-containing wastes greater than 136 mg/l	·	•		
Waste acids and bases with or without metals				1
Cleaning, rinsing, and surface preparation solutions from	electroplating	or phosphating of	perations	
Vibratory deburring wastewater				
Alkaline and acid solutions used to clean metal parts or e	equipment		•	İ
ils Subcategory: Subpart B				
Used oils				j
Oil-water emulsions or mixtures				
Lubricants				
Coolants			• .	
Contaminated groundwater clean-up from petroleum sou	rces	•		
Used petroleum products				
Oil spill clean-up		4		
Bilge water				
Rinse/wash waters from petroleum sources		April 1		
Interceptor wastes		a self		
Off-specification fuels				•
Underground storage remediation waste				
Tank clean-out from petroleum or oily sources				}
Non-contact used glycols				
Underground storage remediation waste  Tank clean-out from petroleum or oily sources  Non-contact used glycols  Aqueous and oil mixtures from parts cleaning operations  Wastewater from oil bearing paint washes	l ja	Elen		
Wastewater from oil bearing paint washes				
Organics Subcategory: Subpart C	la design			
				* * *
Landfill leachate				
Contaminated groundwater clean-up from non-petroleum	i sources			
Solvent-bearing wastes				
Off-specification organic product				
Solvent-bearing wastes  Off-specification organic product  Still bottoms  Byproduct waste glycol  Wastewater from paint washes  Wastewater from adhesives and/or epoxics formulation  Wastewater from organic chemical product operations  Tank clean out from organic pon-petroleum sources				
Byproduct waste glycol Wastewater from paint washes				
Wastewater from adhesives and/or epoxics formulation				
Wastewater from addressves and of epoxics formulation Wastewater from organic chemical product operations	:			
Tank clean-out from organic, non-petroleum sources				
Tank elean-par mont of Burne, mon-ben plents sources		100 114 115 116		

(1)	If the v	waste contains oil and g	rease at	or in excess	of 100 mg/	/L, the was	ste shou <u>ld</u> b	e classified	in the oils	subcategory	<b>y.</b>
(2)		waste contains oil and g values listed below, the							low in cond	entrations i	n exces
	Chrom Coppe	ium: 0.2 mg/L nium: 8.9 mg/L r: 4.9 mg/L i: 37.5 mg/L	:" :::::::::::::::::::::::::::::::::::	-					# · · ·	· w	
(3)		waste contains oil and g above any of the values								romium, co	pper, or
		Metals Subcategory							* = -		
		Oils Subcategory									
		Organics Subcategor	y								

## SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

7388 Goldman Manufathuring (Furnes) # 2388



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Brandi Hooper

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2388

Generator: Goodman Manufacturing (Furnace Plant)

Address: 3300 West 11th Street

Houston, TX 77008

## Waste Information

Name of Waste: Waste paint booth filters

TCEQ Waste Code #: 11054031

Container Type:

CY box

**Detailed Description of Process Generating Waste:** 

Non hazardous spent paint booth filters from powder paint booth area. Paint powder use

in Bahama Beige Polyester

Color: varies

Odor: none

pH: na

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. GOODMAN CES Environmental Service



DB

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

Company:	Goodman Manu	ifacturing			
Address:	3300 West 11th				
City, State, Zip:	Houston, TX	77008			
Contact:	Brandy Hooper		Title:	EHS Manager	
Phone No:	713-263-5594		Fax No:	713-602-3284	
24/hr Phone:	281-850-4044				
U.S. EPA I.D. No:				1.6	
State I.D.	84122		SIC Code:	-NA -	
SECTION 2: Billin	ng Information –	Same as Above			e e e e e e e e e e e e e e e e e e e
Company:	Goodman Manufa	cturing Company			
Address:	PO Box 573958				
City, State, Zlp:	Houston, TX 7725	7-3958			
Contact:	Accounts Payable	Title:			
Phone No:		Fax No.	:		
Physical State:	☐ Liquid ⊠ Solid	<ul><li>☐ Studge</li><li>☐ Filter Cake</li></ul>	☐ Powder ☐ Combinati	OD	
•	_ ·· •			on	
Color: <u>Varies</u>	⊠ Solid	Filter Cake	☐ Combinati	បា	
Color: <u>Varies</u> Specific Gravity (w	⊠ Solid	Odor: None Density: 1bs/ga	☐ Combinati	OB	
Physical State: Color: <u>Varies</u> Specific Gravity (w Layers:	Solid  rater=1): <u>.8-1.5</u> Single-phas	☐ Filter Cake  Odor: None  Density: ☐ lbs/ga  Multi-phase	☐ Combinati		er:
Color: <u>Varies</u> Specific Gravity (w Layers: Container Type:	Solid rater=1): <u>.8-1.5</u>	Odor: None Density: 1bs/ga	☐ Combinati	<b>⊠</b> 0ι	her (explain)
Color: <u>Varies</u> Specific Gravity (w Layers: Container Type:	Solid  rater=1): <u>.8-1.5</u> Single-phas	☐ Filter Cake  Odor: None  Density: ☐ lbs/ga  Multi-phase	☐ Combinati	<b>⊠</b> 0ι	
Color: <u>Varies</u> Specific Gravity (w Layers: Container Type: Container Size:	Solid  rater=1): <u>.8-1.5</u> Single-phas	☐ Filter Cake  Odor: None  Density: ☐ lbs/ga  Multi-phase	☐ Combinati	<u>C</u> \ ∑ 0ι	her (explain)
Color: <u>Varies</u> Specific Gravity (w Layers: Container Type: Container Size: Frequency:	Solid  Fater=1): .8-1.5  Single-phase Drum Weekly	☐ Filter Cake  Odor: None  Density: ☐ ibs/ga  ie ☐ Multi-phase  ☐ Tote  ☐ Monthly	☐ Combinati	<u>C</u> \ ∑ 0ι	her (explain) <u>' Box</u> arly
Color: <u>Varies</u> Specific Gravity (w Layers: Container Type: Container Size: Frequency: Number of Units (c	Solid  sater=1): .8-1.5  Single-phase Drum Weekly ontainers): 1-5	☐ Filter Cake  Odor: None  Density: ☐ ibs/ga  ie ☐ Multi-phase  ☐ Tote  ☐ Monthly  Other:	☐ Combinati	<u>C</u> \ ∑ 0ι	her (explain) ' Box
Color: <u>Varies</u> Specific Gravity (w  Layers:  Container Type:  Container Size:  Frequency:  Number of Units (c  Texas State Waste	Solid  Fater=1): .8-1.5  Single-phase  Drum  Weekly ontainers): 1-5  Code No:	☐ Filter Cake  Odor: None  Density: ☐ Ibs/gs  ie ☐ Multi-phase  ☐ Tote  ☐ Monthly Other:	Combinati	⊠ Oi CY . □ Ye	her (explain) <u>' Box</u> arly
Color: <u>Varies</u> Specific Gravity (w Layers: Container Type: Container Size: Frequency: Number of Units (c Texas State Waste (	Solid  Fater=1): .8-1.5  Single-phase  Drum  Weekly ontainers): 1-5  Code No: hipping Name:	☐ Filter Cake  Odor: None  Density: ☐ Ibs/ga  ie ☐ Multi-phase  ☐ Tote  ☐ Monthly  Other: ☐  Non-RCRA, Non-	Combinati  al  Truck  Quarterly	⊠ Ot CY	her (explain) / BOX arly Filters
Color: <u>Varies</u> Specific Gravity (w Layers: Container Type: Container Size: Frequency: Number of Units (c Texas State Waste (	Solid  sater=1): .8-1.5  Single-phase Drum Weekly ontainers): 1-5 Code No: hipping Name:	☐ Filter Cake  Odor: None  Density: ☐ ibs/ga  ie ☐ Multi-phase  ☐ Tote  ☐ Monthly Other: ☐ 11054031  Non-RCRA, Non- Na.	Combinati	⊠ Ot CY	her (explain) / BOX arly Filters RQ: Na
Color: Varies  Specific Gravity (w  Layers:  Container Type:  Container Size:  Frequency:  Number of Units (c  Texas State Waste (c)  Proper U.S. DOT S  Class: Na	Solid  ater=1): .8-1.5  Single-phase Drum Weekly ontainers): 1-5 Code No: hipping Name:	☐ Filter Cake  Odor: None  Density: ibs/ga  ie  ☐ Multi-phase  ☐ Tote  ☐ Monthly Other: 11054031  Non-RCRA, Non-NA: Na	Combinati	✓ Ot CY ✓ Ye Vaste Paint Booth	her (explain) / Box arly Filters RQ: Na
Color: <u>Varies</u> Specific Gravity (w  Layers:  Container Type:  Container Size:  Frequency:  Number of Units (c  Texas State Waste (	Solid  ater=1): .8-1.5  Single-phase Drum Weekly ontainers): 1-5 Code No: hipping Name:	☐ Filter Cake  Odor: None  Density: ibs/ga  ie  ☐ Multi-phase  ☐ Tote  ☐ Monthly Other: 11054031  Non-RCRA, Non-NA: Na	Combinati	✓ Ot CY ✓ Ye Vaste Paint Booth	her (explain) BOX arly Filters RQ: Na
Color: Varies  Specific Gravity (w  Layers:  Container Type:  Container Size:  Frequency:  Number of Units (c  Texas State Waste (c)  Proper U.S. DOT S  Class: Na	Solid  ater=1): .8-1.5  Single-phase Drum Weekly ontainers): 1-5 Code No: hipping Name:	☐ Filter Cake  Odor: None  Density: ☐ ibs/ga  ie ☐ Multi-phase  ☐ Tote  ☐ Monthly  Other: ☐ 11054031  Non-RCRA, Non-Na: Na	Combinati	✓ Ot CY ✓ Ye Vaste Paint Booth	her (explain) / Box arly Filters RQ: Na

SECTION 4: Physical and Chemical Data

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The waste consists of the following materials	Ranges are acceptable	or %
Paint Booth Filters	90-97	%
Paint Powder	3-10	%

SR.	CTI	ON	4.	Safety	Relat	n ha	ata
J	$\sim$ 1 $^{-1}$	OL 1	J	CHICK	I CIDI		aza

If the handling of this waste requires the use of special protective equipment, please explain, None

## SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS Sheets on Paint Powder

## SECTION 7: Incompatibilities

Please list all incompatibilities (if any): None

## SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of generator knowledge:	the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon $\it the$ following
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity:	
Ignitability:	
SECTION 9: Generato	r's Certification

The information contained herein is based on \( \sum \) generator knowledge and/or \( \sum \) analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful comissions of companion and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document,

Authorized Signature:		Mela	200	Date: 09/20/07
Printed Name/Title: _	J.nMcCay	MORE	Earies Affairs	

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robbun Thys	Additional Information: 35/dm plus
Date: 10-41-07 Approved Rejected	Trans
Approval Number: 2388	· 05
Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Contro	

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3	ECTION (U. Waste Receipt Classification Under 40 CFR 4	<u>137</u>
Is	this material a wastewater or wastowater sludge?   YES	⊠ NO
If	'Yes', complete this section.	
P	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	PRIATE CATEGORY, GO TO THE NEXT PAGE.
Meta	als Subcategory: Subpart A	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equi	
<u>Oils</u>	Subcategory: Subpart B	
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	
<u>Organ</u>	nics Subcategory: Subpart C	
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sour Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	irces

P.04

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

Oils Subcategory

Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

03/31/2004 15:45

7138610349

HALLMAN PTU

Triul on 5-Stage Pont L Studing 1/2/03

## TECHNICAL DATA SHEE

KANSAS CITY 1136 Fayette Street NKC, MO. 64116 816-421-7400

**JACKSON** 95 Quaker Oats Drive Jackson, TN 38301 731-421-9200

CHARLOTTE 10300 C. Freeman Dri Charlotte, No. 28262 man Drive 704-548-282

BALTIMORE 8200 Fischer Road Baltimore, MD 21222 410-477-8200

PRODUCT DESCRIPTION: Bahama Beige Polyester CODE: PTB60003 POWDER PROPERTIES CHEMICAL TYPE: Polyester/TGIC SPECIFIC GRAVITY: 1.63 ± 0.05 CURE CYCLE: 15'@ 365F THEORETICAL COVERAGE: 118.03 sq. n./p. @ 1.0 mil APPEARANCE: Smooth MECHANICAL TESTS **METHOD** FLEXIBILITY (CONICAL MANDREL) **ASTM D-522 ASTM D-3359** · DHESION ASTM D-2794 DIRECT APACT RESISTANCE ASTM D-2794 REVERS WI-QC-18510-LI **GEL TIME** 

GLOSS (60°)

ASTM D-523 **ASTM B-117** 

RESULTS Pass 1/8" 4R 160 in. lbs. Pass 160 in, lbs. Pass 40-60 65-75

500 hrs. 1/16" max.

ALL TESTS WERE PERFORMED ON .032 CRS PANELS CURED 15 '@ 365F. ELECTROSTATICALLY SPRAYED AT 1.2 - 2.4 hils. PRE-TREATMENT

STEEL:

SURFACE MUST BE CLEAN, RUST FREE AND FEEE FROM GREASE. CORROSION RESISTANCE CAN BE IMPROVED BY PRETREATING WITH IRON PHOSPHATE, AND TO A GREATER EXTENT WITH ZINC PHOTPHATE.

APPLICATION: ELECTROSTATION 0-90KV

STORAGE & HANDLING

THIS PRODUCT SHOULD BE STORED BELOW 80°F AND 50% RELATIVE HUMIDITY. IF IT IS STORED AT A TEMPERATURE BELOW THE APPLICATION ROOM TEMPETATURE, ALLOW THE PRODUCT TO COME UP TO TEMPERATURE BEFORE OPENING THE CONTAINER. REFERENCE SHOULD BE MADE TO THE MATERIAL SAFETY DATA SHEET. RECOMMENDED SHELVE LIFE IS 12 MONTHS.

TOS REVISION NUMBER!

**SALT SPRAY (B1030/P95)** 

F4.4.21.01C Revision 01

The date on this sheet represent typical values. Since application variables are a major tector in product principmence, this thormation should serve only as a general guide Valeper assumes to obligation or fability for use of they information. UNLESS YALSPAR AGRIES OTHERWISE IN WRITING, VALEPER HAKES NO WARRANTIES SOFT AND DISTRIBUTED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OF PITHINGS PORM PAR TICULAR USE OR REPEBONE PROPER INFORMENT. FALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL INCIDENTAL ON CONSEQUENTIAL DAMAGES. Your only set body for any defect in this product is the replacement of the delegated of its gurchase price, at our opportunity.

CES Environmental Service

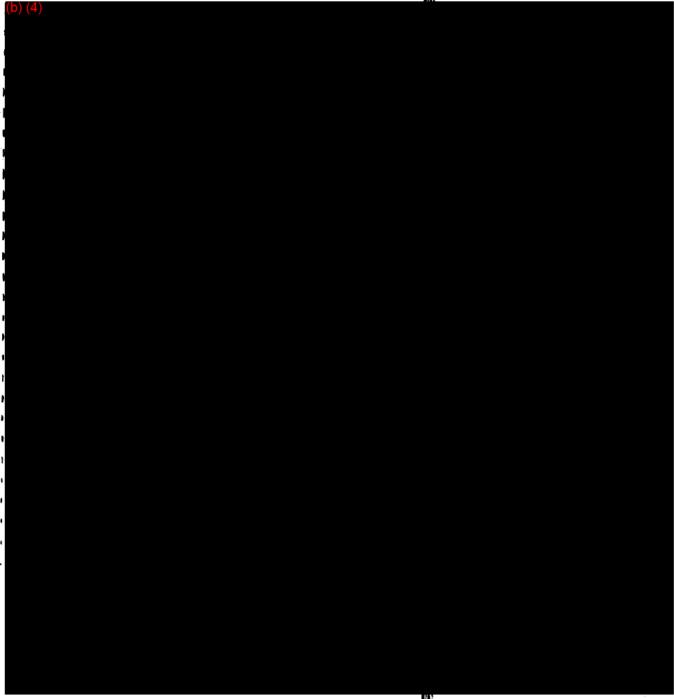
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GULLEMAN INFO

# The Valspar Corporation Material Safety Data Sheet



Product ID:

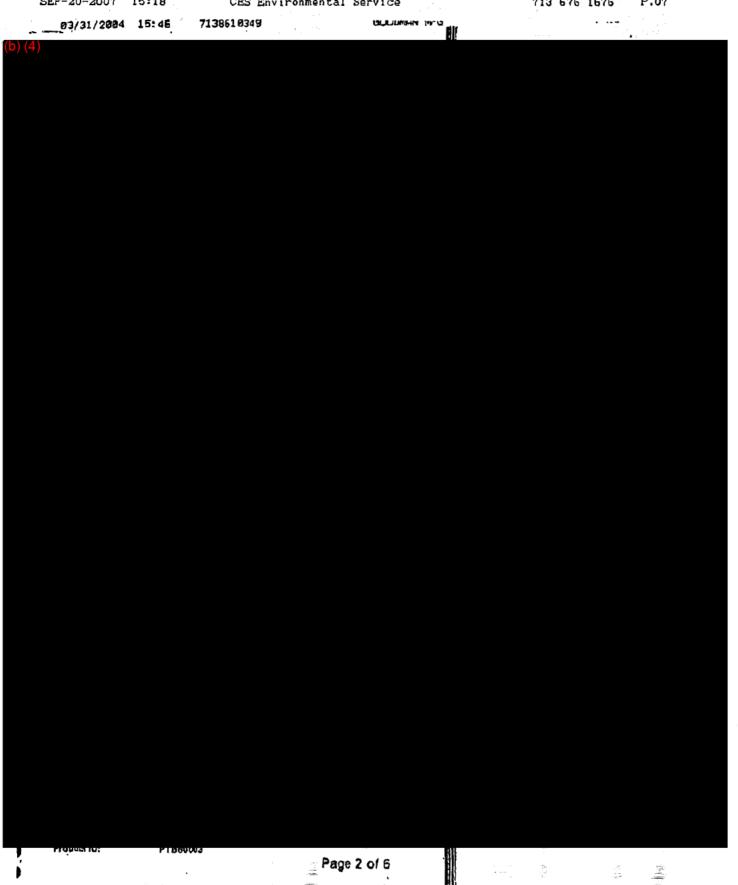
PTBEGODS

Page 1 of 6

CES Environmental Service

7138561832 P.007 713 676 1676 P.07

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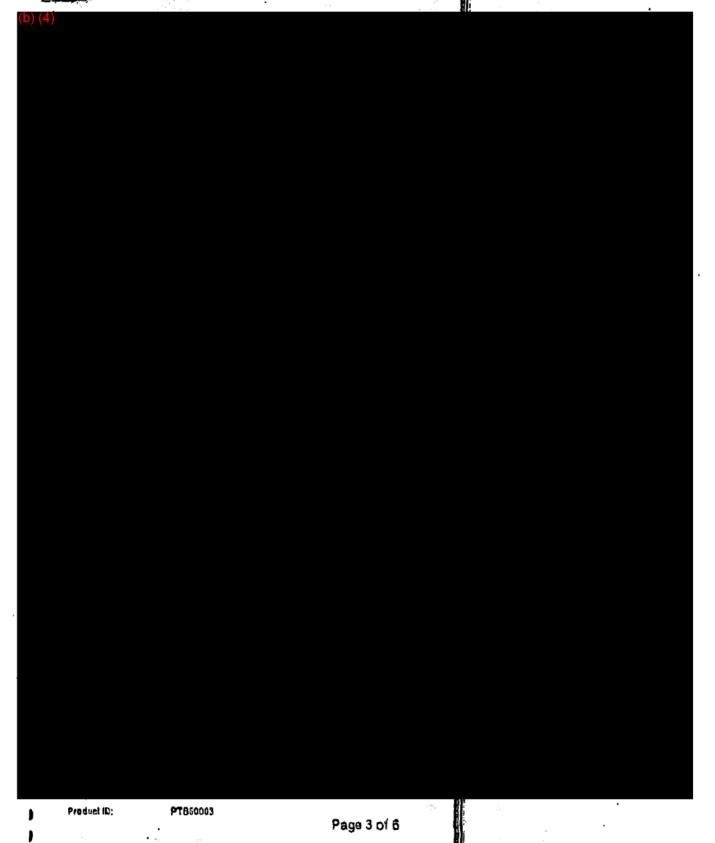


CES Environmental Service

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83/11/2004 TO:40

(T 300T A-11



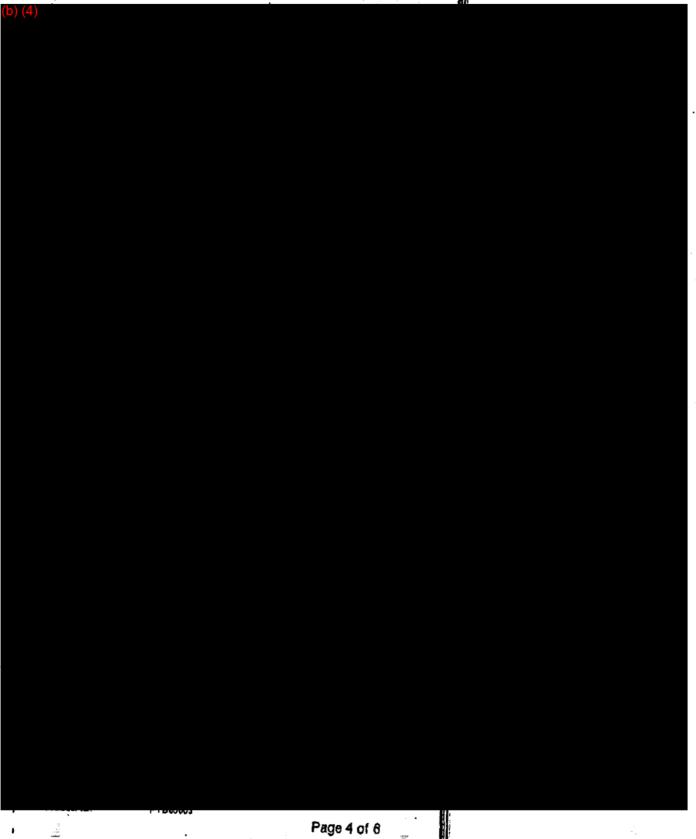
CES Environmental Service

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7138561832 P.011 713 676 1676 P.11

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Product 10:

PTB60003

Page 6 of 6

#### Certificate of Analysis



SINCE 1985

Quality Controlled Through Analysis

10830 FALLSTON IND HOUSTON, TEXAS 77099 P.O. BOX 741905, HOUSTON, TEXAS 77274

> TEL: (281) 496-2400 FAX: (281) 495-2410

CLIENT: Goodman	Manufacturing Co. L.P.	REQUESTED BY:	Mr. Mark K. DeWeese
	- Paint Waste Sample	REPORT DATE:	August 10, 2005
LABORATORY NO:	38329 Page 2 of 3	PURCHASE ORDER NO:	32880

TEST

RESULT

#### Volatile Organic Compounds by GC/MS, E.P.A. Method 8280: (Cont.)

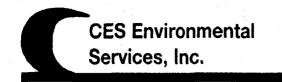
Compounds	Result, ppm	Reporting Limit, ppm
Benzene	Not Detected	0.02
Carbontetrachloride	Not Delegted	0.02
1,2-Dichloropropane	Not Detected	0.02
Trichloroethene	Not Delected	0.02
Dibramomethane	Not Detected	0.02
	Not Detected	0.02
Bromodichioromethane	Not Detected	0.02
cis-1,3-Dichloropropene	Not Detected	0.02
trans-1,3-Dichloropropene	Not Detacted	0.02
Toluene 1,1,2-Trichlorgethane	Not Detected	0.02
	Not Detected	0.02
1,3-Dichloropropane		
Dibromochloromethane	Not Delected Not Detected	U.UE
1,2-Dibromoelhane		0.02
Tetrachloroethena Chlorobenzene	Not Detected Not Detected	0.02
	Not Detected	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
1,1,1,2-Tetrachioroethane	Not Detected	0.02
Ethylbenzene	Not Detacted	
n&p-Xylene		0.02
Bromatom  Strong	Not Detected	0.02
2(At Gale	Not Detected	0.02
p-Xylene	Not Deliacted	0.02
1,1,2,2-Tetrachioroethane	Not Delacted	0.02
1,2,3-Trichloropropane	Not Delected	0.02
sopropylbenzene	Not Delacted	0.02
Promobenzene	Not Detacted	0.02
2-Chlorotoluane	Not Detected	0.02
n-Propylbenzene	Not Detacted	0.02
-Chlorotoluene	Not Detected	0.02
1.3,5-Trimelhylbenzene	Not Detected	0.02
ert-Bulylbenzens	Not Detected	0.02
,2,4-Trimethylbenzene	Not Detected	0.02
,3-Dichlorobenzene	Not Detected	0.02
sec-Butylbenzene	Not Detacted	0,02
,4-Dichlorobenzene	Not Detected	0.02
-isopropyiloluene	Not Detected	0.02
,2-Dichlorobenzene	Not Detacted	0.02
Bulylbenzene	Not Detacted	0.02
,2-Dibrorno-3-chloropropan	Not Detected	0.02
,2,4-Trichlorobenzene	Not Detected	0.02
Vaphthalene	Not Detected	0.02
.2,3-Trichlorobenzene	Not Detected	
lexachlorobutadiene	Not Detected	0 02
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These analyses, opinions or interpretations are based on material supplied by the client to whom, and for whose exclusive and confidential use this report is made. Texas Olitech Laboratories, Inc. and its officers assume no responsibility and make no warranty for proper operations of any perclaum, oil, gas or any other material in connection with which this report is used or religion.



Noltex # 2389



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

### Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Control Room

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2389

Generator: Noltex

Address: 12220 Strang Road (Attn: Randy Boeding)

La Porte, TX 77571

#### Waste Information

Name of Waste: Batteries
TCEO Waste Code #: UNIV

**Container Type:** 

pallet

Detailed Description of Process Generating Waste: Recyclable batteries from automobiles and equipment

Color: varies

Odor: non

pH: na

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021
Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Gener	ator Information				
Company:	NOLTEX, L.L.C				
Address:	12220 Strang Road				
City, State, Zip:	LaPorte, TX 77571				_
Contact:	Debbie Dalton		Title:	HS&E Coordinator	_
Phone No:	(281) 842-5031		Fax No:	(281) 842-5095	_
24/hr Phone:	(281) 842-5031			(=01) 01= 0000	_
U.S. EPA I.D. No:	TXR00001106	· · · · · · · · · · · · · · · · · · ·			
State I.D.	84348		SIC Code:	NA	
State 1.D.		·	SIC Couc.	, , ,	
Company:Address:	Information – 🛛 Sam	e as Above			<u>.                                    </u>
City, State, Zip:			<del></del>		
Contact:		Title:			
Phone No:		Fax No:			
					_
SECTION 3: General	al Description of the W	aste			
Name of Waste: Batt Detailed Description		Waste: Recyclable batter	ies from Auton	nobiles & equipment	
Physical State:	☐ Liquid ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Sludge	Powder Combination	<b>.</b>	
Color: Varies	Odo	r: <u>None</u>		•	
Specific Gravity (wat	ter=1): <u>1.5</u>	<b>Density:</b> <u>12</u> lbs/gal		•	
Layers:	⊠ Single-phase	☐ Multi-phase			
Container Type: Container Size:	Drum	Tote	Truck	Other (explain)  Batteries on pallet	
<u></u>		7		<b>□ v</b> •	
Frequency:	☐ Weekly	☐ Monthly ⊠	Quarterly	Yearly	
Number of Units (cor	ntainers): <u>20</u>	Other:			
Texas State Waste Co	ode No: Univer	rsal Waste			
Proper U.S. DOT Shi	pping Name:	Batteries, Wet, filled w	ith Acid		—
Class: 8	UN/NA:	UN2794	PG: III	RQ: N/A	· ·
Flash Point		eactive Sulfides	Reactive Cy		
Oil&Grease N/Amg/l	TOC <u>N/A</u> mg/l	Zinc	Copper **** N/Amg/l		
	VINDS	Lumba	ferton	page of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same o	

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials	Concentration Ranges are acceptable	Units or %	
Recyclable Lead Acid Batteries	100	%	

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.  $\underline{\mathbf{None}}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

None

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X-Universal Waste
TCLP Volatiles: X-Universal Waste
TCLP Semi-Volatiles: X-Universal Waste
Reactivity: X-Universal Waste
Corrosivity: X-Universal Waste
Ignitability: X-Universal Waste

#### SECTION 9: Generator's Certification

Authorized Signatur

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Printed Name/Title: Nandy Barding - Senior	- VP
CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Rebluckley of	Additional Information: Gar Rate Sheet
Date: 10-4-07 Approved Rejected Approval Number: 2389	1 Recycle

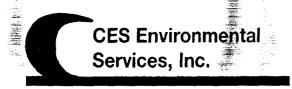
SE	ECTION 10: Waste Receipt Classification Under 40 CFR 4	<u>137</u>		
Is	this material a wastewater or wastewater sludge?   YES	⊠ NO		
If	'Yes', complete this section.			
PI	EASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRIATE CATEG	ORY, GO TO T	HE NEXT PAGE.
Meta	als Subcategory: Subpart A			
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equi		phating operation	ons
Oils .	Subcategory: Subpart B			
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes			
<u>Organ</u>	nics Subcategory: Subpart C			
	Landfill leachate Contaminated groundwater clean-up from non-petroleum so Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	urces		

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.				
(2)		waste contains oil and grease less than 100 mg/L, ar values listed below, the waste should be classified in		ow in concentrations in exces	
	Cadm Chror Coppe	ium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L :l: 37.5 mg/L			
(3)		waste contains oil and grease less than 100 mg/L, are above any of the values listed above, the waste shows			
		Metals Subcategory			
		Oils Subcategory			
		Organics Subcategory			

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

239Rational Oil well (south year) # 2390



### Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Larry Pruitt

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2390

Generator: National Oilwell (South Yard)

Address: 9600 Clinton Drive

Houston, TX 77029

#### Waste Information

Name of Waste: Anti-freeze
TCEQ Waste Code #: Recycle

Container Type:

**Detailed Description of Process Generating Waste:** 

Equipment fluid changes

Color: yellowish/green Odor: glycol like

**pH:** 8-10

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461

**ISWR No: 30900** 

Ros

**SECTION 1:** Generator Information National Oilwell Varco (Galena Park-South Yard) Company: 9600 Clinton Drive Address: City, State, Zip: Houston, TX 77029 Larry Pruitt Contact: Title: EH & S Manager 713-356-7200 Phone No: Fax No: 713-356-7402 CES-713-676-1460 24/hr Phone: CESOG U.S. EPA I.D. No: State I.D. CESOG SIC Code: SECTION 2: Billing Information – Same as Above Company: National Oilwell Varco Address: P.O. Box 472 210 Magnolia Galena Park, TX City, State, Zip: 77547 Larry Pruitt Title: EH & S Manager Contact: 713-356-7200 713-356-7402 Phone No: Fax No: **SECTION 3:** General Description of the Waste Name of Waste: Anti-Freeze Detailed Description of Process Generating Waste: Equipment Fluid Changes **⊠** Liquid ☐ Sludge ☐ Powder **Physical State:** Combination Solid Solid Filter Cake Color: Yellowish/Green Odor: glycol like Specific Gravity (water=1): .90 Density: 8 lbs/gal Layers: **⊠** Single-phase Multi-phase Container Type: Drum Tote Truck Other (explain) **Container Size:** 55 gal  $\boxtimes$ Weekly Monthly Yearly Frequency: Quarterly Number of Units (containers): 1 Other: **Texas State Waste Code No:** NA-Recyclable Material Non-RCRA; Non-DOT Regulated Material Proper U.S. DOT Shipping Name: UN/NA: PG: NA RO: NA Class: NA Reactive Sulfides Flash Point **Reactive Cyanides** Solids Hq <u>8-10</u> <u><2</u>% >140 0mg/l 0mg/l TOC Zinc Nickel Oil&Grease Copper

0mg/l

0 mg/l

0 mg/l

>1500mg/l

>1500mg/l

#### SECTION 4: Physical and Chemical Data

The waste consists of the following materials			Concentration Ranges are acceptable	Units or %=	
Ethylene Glycol			40-60	%	
Water			40-60	%	
oil	. 1964 	Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo Carlo	0-10	%	
Dirt			0-2	%	
		*		-2	

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level  $\underline{D}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. none

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	<u>X</u>
Corrosivity:	X
Ignitability:	$\mathbf{X}$

Authorized Signature:

#### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

E IN THIS SPACE)			
new Riber of	Additional Information: _	40° 1 Brun	
(Approved Rejected	Trans 70	1HO FFSE	
0	REC		
	Approved Rejected	Approved Rejected Trans 70	Approved Rejected Trans 70 /140 + F50

Date: 10/3/07

### SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES If 'Yes', complete this section.

#### O TO THE NEXT PAGE.

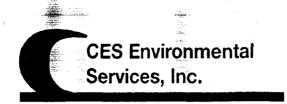
		727	
P	LEASE CHECK THE APPROPRIATE BOX. IF	NO APPROPRIATE	CATEGORY, GO TO THE
Met	als Subcategory: Subpart A		
П	Spent electroplating baths and/or sludges		
Ħ	Metal finishing rinse water and sludges		
Ħ	Chromate wastes		
Ħ	Air pollution control blow down water and sludg	nac	
H	Spent anodizing solutions	Res	
Ħ	Incineration wastewaters	9	
H	Waste liquid mercury		
H	Cyanide-containing wastes greater than 136 mg/	/ <b>1</b>	
H	Waste acids and bases with or without metals	1	
Ħ	Cleaning, rinsing, and surface preparation soluti	one from electronisting	r or phosphoting approxima
H	Vibratory deburring wastewater	ons nom electropiating	g or phosphating operations
H	Alkaline and acid solutions used to clean metal i	narte or aquinment	
	Alkaline and acid solutions used to clean metal p	parts or equipment	
<u>Oils</u>	Subcategory: Subpart B		
$\Box$	Used oils		
H	Oil-water emulsions or mixtures		
H	Lubricants		
H	Coolants		
H	Contaminated groundwater clean-up from petrol	laum couroac	
H	Used petroleum products	leum sources	
H	Oil spill clean-up	1	
H	Bilge water		A Company
H	Rinse/wash waters from petroleum sources		
H	Interceptor wastes	and the second of the second	
H	Off-specification fuels		
H	Underground storage remediation waste		
H	Tank clean-out from petroleum or oily sources		
H	Non-contact used glycols		
H	Aqueous and oil mixtures from parts cleaning or	parations	
H	Wastewater from oil bearing paint washes	oci attoris	
لت	wastewater from on bearing paint wasnes		A STATE OF THE STATE OF
Ora	anics Subcategory: Subpart C		
UIE	unics Subcutegory. Subpart C		
П	Landfill leachate		
Ħ	Contaminated groundwater clean-up from non-p	etroleum sources	
H	Solvent-bearing wastes	ctroleum sources	
Ħ	Off-specification organic product		
Ħ	Still bottoms		
H	Byproduct waste glycol	4 . Al .	
H	Wastewater from paint washes		
H	Wastewater from adhesives and/or epoxies form	ulation	
H	Wastewater from organic chemical product oper		
$\exists$	Tank clean-out from organic, non-petroleum sou		
ш.	rank dean-out nom organic, non-peu oleum sou	II CC2	

(1)	If the w	vaste contains oil and grease	at or in excess of 100	mg/L, the waste sh	ould be classified in the	oils subcategory.
(2)		vaste contains oil and grease lyalues listed below, the waste				concentrations in excess
	Cadmin Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L : 37.5 mg/L			13 15	
(3)		vaste contains oil and grease labove any of the values listed	•			
		Metals Subcategory			<u></u>	
		Oils Subcategory				
		Organics Subcategory				

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

339 National oil well (souts yed) # 2391



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

### Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Larry Pruitt

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2391

Generator: National Oilwell (South Yard)

Address: 9600 Clinton Drive

Houston, TX 77029

#### Waste Information

Name of Waste: TPH contaminated soil and absorbent

TCEQ Waste Code #: CESQ3011

Container Type:

**Detailed Description of Process Generating Waste:** 

Cleanup of oil spills

Color: various

Odor: none

pH: na

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

=Phone: (713) 676-1460

Fax: (713) 676-1676



TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Genera	tor Information				
Company:	National Oilwell Va	rco (Galena Park-South Yar	d)		
Address:	9600 Clinton Drive				
City, State, Zip:	Houston, TX 77029	)			
Contact:	Larry Pruitt		Title:	EH & S Mana	ger
Phone No:	713-356-7200		Fax No:	713-356-7402	
24/hr Phone:	CES-713-676-1460		-		
U.S. EPA I.D. No:	«EESQG- NG			_	
State I.D.	CESQG- NA		SIC Code:	NA	
•			_		
SECTION 2: Billing	Information – S	ime as Above			
	Vational Oilwell Varc				
1 ·	O. Box 472	210 Magnolia			
_	Galena Park, TX 775		<del></del>		
· · · · · · · · · · · · · · · · · · ·	arry Pruitt	Title:	EH & S Manage		
	13-356-7200	Fax No:	713-356-7402		
	10 000 /200		7.10 000 7.102		<del> </del>
SECTION 2. Comovo	I Decemination of the	Wasta			
SECTION 3: Genera	ii Description of the	waste			
Name of Waste: TPH	Contaminated Soil a	nd absorbent			
		ng Waste: Clean up of oil sp	ville		
Detailed Description	of Fracess Generation	ig waste. Clean up of on sp	71115		
Physical State:	☐ Liquid	Sludge	Powder		
1 uysicai State.	_		-		
	Solid	Filter Cake	Combination		
Color: <u>various</u>	0	dor: <u>none</u>			
Specific Gravity (wat	er=1): <u>1.2</u>	Density: 10 lbs/gal			
					No.
Layers:	Single-phase	☐ Multi-phase			
	_	<u> </u>			
Container Type:	☑ Drum	□ Tote □	Truck		ier (explain)
• •	<del>-</del>		Truck		iei (expiain)
Container Size:	<u>55 gal</u>				·
					*
Frequency:	☐ Weekly	☐ Monthly ☒	Quarterly	☐ Yea	nrlv
Number of Units (con		Other:	Carrier of		<b>-</b>
· ·	. –				
Texas State Waste Co	ode No: CE	SQ3011			
Proper U.S. DOT Shi	pping Name:	Non-RCRA; Non-DO	Regulated Mate	rial	
<del>-</del>					70 314
Class: NA	UN/NA	: NA	PG: NA		RQ: NA
<del></del>			·		
<del></del>		70 - 41 - 0 16°3	T		C 313
Flash Point	pH	Reactive Sulfides	Reactive Cya	nides	Solids
<u>&gt;140</u>	NA	<u>0</u> mg/I	Omg/I		100%
Oil&Grease	TOC		Copper	Nickel	
>1500mg/l	>1500mg/l	<u>0</u> mg/l	<u>0</u> mg/l	<u>0</u> mg/l	

#### SECTION 4: Physical and Chemical Data

1.4544	COMPONENTS TAB		Concentration	Units
	The waste consists of the following	ng materials	Ranges are acceptable	or %
Dirt	The Park of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contr	The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	40-100	%
Clay Abs	orbent	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	40-100	%
Oil-motor	oil, hydraulic oil	- 144	0- 10	%
Trash, ra	gs, oil booms		0- 20	%
	. Str. Str.			

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level D

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Analysis

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	$\underline{\mathbf{X}}$
TCLP Volatiles:	$\underline{\mathbf{X}}$
TCLP Semi-Volatiles:	<u>X</u>
Reactivity:	$\underline{\mathbf{X}}$
Corrosivity:	$\mathbf{X}$
Ignitability:	$\underline{\mathbf{x}}$

**Authorized Signature:** 

#### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\boxtimes$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Trinted Name/Title. 1772	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Robband Rejected  Date: 10-4-07 Approved Rejected	Additional Information: #55:00/Drum
Approval Number: 2391	

#### SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? \( \square\) YES ⊠ NO If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations

Tank clean-out from organic, non-petroleum sources

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory☐ Oils Subcategory☐ Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

### Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

**CES Environmental Services** 

4904 Griggs Rd Houston, TX 77021 Phone: (713) 676-1460 (713) 676-1676 Fax.

Attn:

Gary Brauckman

- CERTIFICATE OF RESULTS -

MES Lab#:

7090414

Client Sample ID:

Extended ID:

**TPH Soil & Absorb** 

NOV-GP-South Yard Soil

Sample Collect Date: 9/14/2007 @ 9:15:00 AM

Sample Type:

Grab

Sample Receipt Date: 9/14/2007 @ 1:15:00 PM

Test Group / Method	<u> </u>				
TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: AM Date / Time
Arsenic	0.014	5	0.054	mg/L	9/18/2007 / 6:09 F
Barium	0.0005	100	0.481	mg/L	9/18/2007 / 6:09 F
Cadmium	0.002	1	0.002	mg/L	9/18/2007 / 6:09 F
Chromium	0.002	5	< 0.002	mg/L	9/18/2007 / 6:09 F
Lead	0.005	5	< 0.005	mg/L	9/18/2007 / 6:09 F
Selenium	0.024	1	0.095	mg/L	9/18/2007 / 6:09 P
Silver	0.002	5	0.009	mg/L	9/18/2007 / 6:09 P
TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	9/24/2007 / 6:37 P
Reactivity, Recoverable Hydrog Method: 7,3,3,2	en Cyanide MDL		Result	Units	Analyst: CL Date / Time
Hydrogen Cyanide	0.25		< 0.25	mg/kg	9/17/2007 / 1:10 P
Reactivity, Recoverable Hydrog Method: 7.3.4.2	en Sulfide MDL		Result	Units	Analyst. CL Date / Time
Hydrogen Sulfide	0.25	· ·	< 0.25	mg/kg	9/17/2007 / 11:05
Corrosivity: pH Method: SW-846 9045	MDL		Result	Units	Analyst: JE Date / Time
pH			7.58		9/17/2007 / 3:00 P
Ignitability Method: SW-846 1010	MDL		Result	Units	Analyst: DEB Date / Time
Flashpoint			>150	deg F	9/17/2007 / 10:35 /

Report Date: 25-Sep-07

Page 1 of 2

#### - CERTIFICATE OF RESULTS -

MES Lab#;

7090414

Client Sample ID:

TPH Soil & Absorb

Extended ID:

**NOV-GP-South Yard Soil** 

Sample Collect Date: 9/14/2007 @ 9:15:00 AM

Sample Receipt Date: 9/14/2007 @ 1:15:00 PM

Sample Type:

Grab

BTEX Method: SW-846 8021B	MDL	Result	Units	Analyst: HDG Date / Time
Benzene	0.5	< 0.5	mg/kg	9/15/2007 / 2:41 PM
Toluene	0.5	0.5	mg/kg	9/15/2007 / 2:41 PM
Ethyl benzene	0.5	0.7	mg/kg	9/15/2007 / 2:41 PM
M+P-Xylene	0.5	5.0	mg/kg	9/15/2007 / 2:41 PM
o-Xylene	0.5	2.6	mg/kg	9/15/2007 / 2:41 PM

Flags: [1]: Exceeds "High Limit" L: Below "Low Limit" RL-regulatory limit

Holland D. Gilmore, Laboratory Director

Tuesday, September 25, 2007

Date

7090414

### MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Arsenic	< 0.002	90	81	9.9	< 0.002	97	58.4	59.0	0.92
Barium	< 0.002	83.3	88	5.26	< 0.002	101	60.5	60.4	0.2
Cadmium	< 0.001	88.2	87.5	0.80	< 0.001	98	62.0	63.0	1.6
Chromium	< 0.001	85	84	1.439	< 0.001	96	66.8	67.3	0.7
Lead	< 0.002	83.2	82.9	0.27	< 0.002	97	61.0	61.3	0.5
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			_,_
Selenium	< 0.024	66.4	80.1	18.8	< 0.024	99	56.4	59,3	5.0
Silver	< 0.001	94	92	2.809	< 0.001	97	66.1	63.3	4,33
						•			

ORIG DUP mg/kg mg/kg RPD

Reactivity as Hydrogen Sulfide < 0.25 < 0.25 0.00

ORIG DUP STD mg/kg mg/kg RPD %REC

Reactivity as Hydrogen Cyanide < 0.25 < 0.25 0.00 105

ANALYTE 7.0 ORIG DUP RPD

PH 7.0 7.58 7.90 4.13

ANALYTE STD

Flashpoint 82°

Mercury Environmental Services, Inc.

7090414

### MERCURY ENVIRONMENTAL SERVICES QA/QC REPORT CONTINUED

ANALYTES	METHOD 8021B	MB mg/L	M\$ %REC	MSD %REC	RPD	STD %REC	
Benzene Toluene Ethylbenzene m+p Xylene o-Xylene		< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	90.8 100.0 99.8 102.0 97.3	91.0 101.0 104.0 112.0 108.0	0.22 1.00 4.12 9.35 10.42	89.6 98.9 99.7 110.3 100.2	
SURROGATE	SPIKE RECO	VERY FOR BTEX				% REC	
4-Bromofluoro	henzene					96.7	

### Standards Utilized:

BTEX: 5 point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene.

#### Key to QA Abbreviations

MS=Matrix Spike RPD=Relative Percent Deviation LCS=Laboratory Control Standard CCB=Continuing Calibration Blank MDL=Minimum Detection Limit MSD=Matrix Spike Duplicate
MD=Method Blank
CCV=Continuing Calibration Verification
%Rec=Percent Recovery
KL=Regulatory Limit

Signature:

Holland D. Gilmore / Laboratory Director

September 25, 2007

Mercury Environmental Services, Inc.

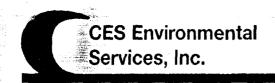
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COMPANY ADDRESS:							Merc 6913 H	ury E lwy. 225	nvir	onm	enta	l Ser	vice	S		)-476-4408
CONTACT PERSON'S NAME: (T-40)	ry Ri	STA	TE	ZIP				ARAME						7	REM	IARKS
CONTACT PERSON'S NAME: 6-47  CONTACT PERSON'S PHONE: 7/3	1417	-57	ZFAX #: _	1		_ 4,	8	/ /						VERS	<u> </u>	ROUND TIME
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Greens Rightine 40 Greens Enligy # 2392

EDALIO





Date 9/30/2007

Dear Robby Mesiovsky

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2392

Generator: Greens Pipeline c/o Greens Energy Group

Address: 2207 Oil Center Court

Houston, TX 77073

Waste Information

Name of Waste: Nonhazardous pipeline pigs

TCEQ Waste Code #: CESQ3191

Container Type:

20 yd roll off

**Detailed Description of Process Generating Waste:** 

Pipeline pigs from line cleaning operations

Color: tan

Odor: none

pH: neutral

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021 Fax: (713) 676-1676

Phone: (713) 676-1460

F2X: (/15) 0/0-10.

http://www.cesenvironmental.com

arantok t. A	To Factor and a second	Greens, Pipel	ine -
SECTION 1: Gene	Charlon b		Breens Enersy Group
Company: Address:		Center Court	
City, State, Zip:		TV. 77073	Sout Lake TY!
City, state, zip:		orde	Title: General Man.
Phone No:	981.831.89		Fax No: 281-921-9
24/hr Phone:	same		1081
U.S. EPA LD. No:	NONE		
State LD.	MDME		SIC Code: none
ÇLLUC LLD.	NV VV		
SECTION 2: Billing	eg l'aformation - Sa	me as Above	
Company:	Select Environmental		
Address:	223 McCarty		
City, State, Zip:	Houston, TX. 77029		
Contact:	Robby Mersiovsky	Title:	Sales
Phone No:	713-882-7740	Fax No:	713-672-9425
SECTION 3: Gene	ral Description of the	Waste	
Name of Waste: IK	on-hazardous pipeline pi	<b>21</b>	
Detailed Description	n of Process Generation	ig Waste: <u>pipeline pigs f</u>	from line cleaning operations
<b></b>	<b></b>	[] (n_a_	□ n
Physical State:	Liquid	Sludge	Powder
	⊠ Solid	☐ Filter Cake	Combination
Color: tan	•	dor: <u>none</u>	
·	- 1/A	Density: No lbs/gal	
Specific Gravity (*	vater=1):	mensity:los/gat	
		Fill Section at a second	
Layers:	Single-phase	Multi-phase	
		[7] m.4.	The Trunch
Container Type:	☐ Drum	Tote	☐ Truck ☐ Other (explain)
Container Size:	·		20 yrd rolloff
W.	Weekly	Monthly	Quarterly
Frequency:		Other:	<u> </u>
Number of Units (	COBCHINALS): T		
Texas State Waste	Code No:	ESQ 3191	
Proper U.S. DOT	Shipping Name:	Non-RCRA,	, Non- DOT regulated material
Class: No.	UN/NA	\	70.
Claris:	-	·	ro: na Ro: na
Plash Point	PH Newtrel	Reactive Sulfides	Reactive Cyanides Solids
Na		<u> </u>	0 mg/l 100 %
Oil&Greese	TOC	Zinc	Copper Nickel
7/7/1901	7/SCU mg/1	() mg/l	<u> </u>

4. 2001 J. 4JAM

#### SECTION 4: Physical and Chemical Data

	COMPONENTS TABLE	Concentration	Units	
	e consists of the following ma	Ranges are acceptable		
pipeline pigs & debris		<u> 1</u>	100%	
	· ·			

#### SECTION 5: Safety Related Data

If the handling of this	; waste requires the use o	f special protective equipme	gt, please explain.
-------------------------	----------------------------	------------------------------	---------------------

Standerd

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package, see analytical

#### SECTION 7: Incompatibilities

Please list all incompatibilities (if any);

none known oxidizus

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	
TCLP Volatiles:	X
TCLP Semi-Volatiles:	<u> </u>
Reactivity:	<u> </u>
Corrosivity:	7
Ignitability:	

#### SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\boxtimes$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

/	Authorized Signature:	42	Date: 10-2-07
		Ryan CaBoide	
,		•	

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Chass I bulk.
Compliance Officer: followling	Additional Information: \$75/4ad
Date: 10-2-07 Approved Rejected	Box Washout 1750
Approval Number: 2392	Box Return \$125

₹2F	CHON 10: Waste Receipt Classification Under 40 CFR 4	<u>3/</u>	<u></u>	
Is t	his material a wastewater or wastewater sludge?   YES	⊠ NO	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
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PL	EASE CHECK THE APPROPRIATE BOX. IF NO APPRO	PRIATE CATE	GORY, GO TO THE N	EXT PAGE.
<u>Metal</u>	s Subcategory: Subpart A		.Ξ	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from elect Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equip		osphating operations	
Oils S	Subcategory: Subpart B			
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes			
<u>Orga</u>	nics Subcategory: Subpart C			
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sour Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol	rces		
	Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources			

(1)	If the	waste contains oil and gr	ease at	or in excess of	f 100 mg/L, th	e waste shoul	be classifi	ed in the oils s	subcategor	у.
(2)		waste contains oil and gr values listed below, the	- 1	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		T 1-191	Bright Harris Control	pelow in conc	entrations	in exces
	Cadmi	ium: 0.2 mg/L	<b>.</b>	wedi'		<u></u>	a sad .	يم. ا		
	Coppe	nium: 8.9 mg/L or: 4.9 mg/L	200	÷				在 ·		
(3)		l: 37.5 mg/L waste contains oil and gr	ease les	s than 100 mg	z/L, and does r	not have conce	entrations of	cadmium, chi	romium, co	opper, o
		above any of the values		_				,	,	· F F ,
		Metals Subcategory	Took					<u>L.</u>		
		Oils Subcategory	;•							
	П	Organics Subcategory	,							

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

# Mike Smith replace Chris Black

### ENVIRON EXPRESS LABORATORIES, INC.



401 N. 11th. St. La Porte, TX 77571 281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO:

62337.01

1of 1

Customer: Select Environmental

Sample ID: Greens Pipeline

Environ ID: 62337.01

Project ID: Greens Pipeline Sour Lake Project Loc: Sour Lake, TX Sour Lake Matrix: Sampled: 09-24-07 Received: 09-24-07

Charge/P.O.:

Type: Grab

Reported: 09-27-07

0.0266

			RECEIVED BA	SIS					
ANALYTE/ PARAMETER	l	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	TEST BY	DATE	TIME
BTEX					/±-				
Benzene		0.679	mg/kg		0.005	SW846.8021B	DMB	09-26-07	19:44
Toluene		0.522	mg/kg		0.005	SW846.8021B	DMB	09-26-07	19:44
Ethylbenzene		0.098	mg/kg		0.005	SW846.8021B	DMB	09-26-07	19:44
Xylenes		0.369	mg/kg		0.015	SW846.8021B	DMB	09-26-07	19:44
Total BTEX		1.668	mg/kg		1	SW846.8021B	DMB	09-26-07	19:44
METALS (RCRA) - TCLP		•		1	1	SW846.1311	MN	09-24-07	ŀ
Arsenic	<	0.02	mg/I	5.0	0.02	SW846.6010B	JA	09-25-07	12:15
Barium		3.36	mg/l	100	0.02	SW846.6010B	JA	09-25-07	12:15
Cadmium	<	0.02	mg/l	1.0	0.02	SW846.6010B	JA	09-25-07	12:15
Chromium	<	0.02	mg/ī	5.0	0.02	SW846.6010B	JA	09-25-07	12:15
Lead	<	0.02	mg/l	5.0	0.02	SW846.6010B	JA	09-25-07	12:15
Selenium	<	0.05	mg/l	1.0	0.05	SW846.6010B	JA	09-25-07	12:15
Silver	<	0.05	mg/l	5.0	0.05	SW846.6010B	JA	09-25-07	12:15
Mercury	<	0.002	mg/l	0.20	0.002	SW846.7470A	MN	09-25-07	07:10
MISC.			1	ł		i		1	
Pyrophoric		Negative	-			49CFR173.APP.E.3	JK	09-27-07	14:15

Definitions:

TCLP - Toxcisity Charasteric Leaching Procedur su - Standard Units

REG - Regulatory Limit (User Should Confirm Limits)

MQL - Method Quanitation Limit

n TPH - Total petroleum Hydrocarbons

PPM - Parts Per Million mg/l - PPM by Volume, mg/kg - PPM by Weight John Keller

John Keller, Ph.D Laboratory Director

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Matrix Key  S:Soil W:Water WW:Waste Water SL:Sludge SO:Solid SE:Sediment L: Leachate WI:Wipe OR:Organic OL:Oil DS:Drum Solid DL:Drum Liquid O:Other  Container Type Koy		S-Soil W-Water WW-Waste Water SI	Sludge SO-Solid SI	F-Sedime	ent I	·leach	Matri:	K Key	OR:c	)roanic	OL:	oii D9	S-Drum	Solid F	)1 -Des	ım Lin	nuid (	):Other	
The Container rape key	4. 1955年於日報中報報報報報報報報報報報報報報報報報報報報報報報報報報報報報報報報報報報	<sup>2</sup> Container Type	Key		J. 16 3ma	· LUBU	- TA	viipe							CSCI	Yau	AC L	CA	
P:Plastic G:Glass V:VOA Glass O:Olher 1:lce(<4°C) 2:HCL 3:H2SO4 4:HNO3 5:NaOH 6:NaOH+Zn Acetate 7:Na2S2O3 8:None		P:Plastic G:Glass V:VOA Glass O:Oth	er						1:10	e(<4°C	) 2:H	CL 3:	H2SO4	<b>4</b> :HNO	3 <b>5</b> :N	аОН	<b>6</b> :Na	OH+Zn Acetate 7:Na2	S2O3 <b>8:</b> None

2393 Notional Oil Well (Suth grad) # 2393



## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Larry Pruitt

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2393

Generator: National Oilwell (South Yard)

Address: 9600 Clinton Drive

Houston, TX 77029

#### Waste Information

Name of Waste: TPH contaminated rags

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Clean up of oil spills

Color: various

Odor: none

pH: na

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

12

SECTION 1: Gener	ator Information		
Company:	National Oilwell Varco (Galena Pa	rk-South Yard)	
Address:	9600 Clinton Drive		
City, State, Zip:	Houston, TX 77029		
Contact:	Larry Pruitt	Title:	EH & S Manager
Phone No:	713-356-7200	Fax No:	713-356-7402
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	CESQG HA		/ <b>A</b> -
State I.D.	CESQG NA	SIC Code:	$\sim \mathcal{A}$
CECTION A D'III	X.C C. C Al		
	Information – Same as Above National Oilwell Varco		
	P.O. Box 472 210 Magnol	ia	
City, State, Zip:	Galena Park, TX 77547		
	Larry Pruitt	Title: EH & S Mar	nager
Phone No:	713-356-7200	Fax No: 713-356-740	
	, 10 000 1200	710 000 710	
SECTION 3: Gener	al Description of the Waste		
SECTION OTHER	<u> </u>		
Name of Waste: TP	H Contaminated Rags		
<b>Detailed Description</b>	of Process Generating Waste: Clea	an up of oil spills, cleaning	<u>pipe</u>
Physical State:	Liquid Sludge	☐ Powder	
	Solid	ke 🔲 Combination	<b>DN</b>
1.4			
Color: various	Odor: <u>none</u>		
Specific Gravity (wa	ter=1): <u>1.2</u> Density: <u>10</u>	lbs/gal	
			and the second second
Layers:	Single-phase 🔲 Mu	lti-phase	
Container Type:	☑ Drum ☐ Tote	Truck	Other (explain)
Container Size:	55 gal		
			□ <b>3</b> 7
Frequency:	☐ Weekly ☐ Monthly	· · · · · · · · · · · · · · · · · · ·	Yearly
Number of Units (co	• = , ·		
Texas State Waste C	Code No: NA-Recyclable Ma	nterial	
Proper U.S. DOT Si	nipping Name: Non-RCR	A; Non-DOT Regulated M	laterial
Class: NA	UN/NA: NA	PG: N.	A RQ: NA
Andrews (1997)			<del></del>
Flash Point	pH Reactive Sulfic	des Reactive C	Cyanides Solids
>140	pH Reactive Sulfid NA Omg/l	des Reactive C	Solids 100%
Oil&Grease	TOC Zinc	Copper	Nickel
>1500mg/l	>1500mg/l 0mg/l	Omg/l	Omg/l

#### SECTION 4: Physical and Chemical Data

		PONENTS TABLE sts of the following materials	Concentration Ranges are acceptable	Units or %	
Rags		A objection as	80=100	%	
Trash		TELL TO STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T	0- 5	%	
Oil-motor oil, hydraulic oil		And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	0- 10	%	
		<b>19</b> 2	٠		

SECTION 5: Salety Related	CTION 5: Safety Related Da	ita
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If the handling of this waste requires the use of special protective equipment, please explain. Level D

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	$\overline{\mathbf{x}}$
TCLP Semi-Volatiles:	$\overline{\mathbf{x}}$
Reactivity:	<u>X</u>
Corrosivity:	X
Ignitability:	X

#### **SECTION 9: Generator's Certification**

The information contained herein is based on 🛛 generator knowledge and/or 🗌 analytical data. I	hereby certify that the above and
attached description is complete and accurate to the best of my knowledge and ability to determ	nine that no deliberate or willful
omissions of composition properties exist and that all known or suspected hazards have been disc	losed. I certify that the materials
tested are representative of all materials described by this document.	
	1.7

Authorized Signature:		Date: 10/7/67
Printed Name/Title: HSE		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)		
Compliance Officer: Rothan Than	Additional Info	ormation: 55 / Dm
Date: 10-4-07 Approved	Rejected Trung	70 /Hr YFSe
Approval Number: 2393		REC

		and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same 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3	SECTION 10: Waste Receipt Classification Under 40 CFR	t 437		1	
	Is this material a wastewater or wastewater sludge?  YES	⊠ NO			interest of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the
<b>1</b> 77	If 'Yes', complete this section.	THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE		1000000	epale companies
	ii res, complete uns section.				1,100
	PLEASE CHECK THE APPROPRIATE BOX. IF NO APP	- DADDIATE CAT	ECODY CO TO TU	E NEVT	DACE
	FLEASE CHECK THE APPROPRIATE BOA. IF NO APP	NOPKIATE CAT	EGUKI, GU IU IH	E NEAI	PAGE.
M	etals Subcategory: Subpart A	#			
Г	Spent electroplating baths and/or sludges				
$\Gamma$	Metal finishing rinse water and sludges				
F	Chromate wastes				
	Air pollution control blow down water and sludges				
$\Box$	Spent anodizing solutions				
Ε	Incineration wastewaters	75.			
Γ	Waste liquid mercury				
	Cyanide-containing wastes greater than 136 mg/l				
	Waste acids and bases with or without metals				
	Cleaning, rinsing, and surface preparation solutions from 6	electroplating or p	hosphating operation	S	
	Vibratory deburring wastewater				
	Alkaline and acid solutions used to clean metal parts or eq	uipment			
	-				
<u>Oi</u>	ils Subcategory: Subpart B				
	Used oils				
늗	Oil-water emulsions or mixtures				
F	Lubricants				
F	Coolants				
	Contaminated groundwater clean-up from petroleum source	ces			
	Used petroleum products				
	Oil snill clean un				
Ē	Bilge water				
	Rinse/wash waters from petroleum sources				
	Interceptor wastes				
	Underground storage remediation waste				
	Tank clean-out from petroleum or oily sources				
	Non-contact used glycols				
	Aqueous and oil mixtures from parts cleaning operations				
	Wastewater from oil bearing paint washes				
<u>O</u>	rganics Subcategory: Subpart C				
_					
F	Landfill leachate				
Ļ	Contaminated groundwater clean-up from non-petroleum	sources			
Ļ	Solvent-bearing wastes				3.65
F	Off-specification organic product				
F	Still bottoms				
F	Byproduct waste glycol				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Ļ	Wastewater from paint washes				•
F	Wastewater from adhesives and/or epoxies formulation				
F	Wastewater from organic chemical product operations				19
L	Tank clean-out from organic, non-petroleum sources				14.00

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

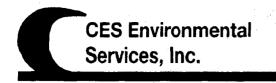
Oils Subcategory

Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Enterprise Andrew Sparting # 2394



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## **Material / Product Approval Letter**

Date 9/30/2007

Dear Mike Tomerlin

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2394

**Producer:** Enterprise Products Operating, L.P.

Address: 10207 FM 1942, Attn: Rachel Wheaton

Mont Belvieu, TX 77580

#### Material / Product Information

Name of Material / Product Splitter 1 caustic Container Type:

#### **Detailed Description of Process Generating or Producing the Material / Product:**

1st process (Merox Process): Sweetening natural gas liquid): Before running the merox process, the natural gas liquid is fractionated to remove C4 and lower. C5 and higher are run through the merox process.

Color: dark

Odor: sulfide

**pH**: 12-14

**Physical State:** 

Incompatibilities: acids

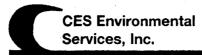
Safety Related Data/Special Handling:

standard PPE (caustic suits)

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021 Fax: (713) 676-1676

Phone: (713) 676-1460

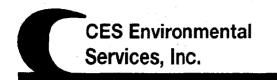
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	ial Produc	er Information								
Company:	Enterpri	ise Products Ope	rating, L.P.	• ,	·					
Address:	10207 F	FM 1942, Attn:	Rachel Whea	ton PO Bo	x 573					
City, State, Zip:	Mont Be	elvieu TX 77580								
Contact :	Mike To	merlin			Tit	tle :				
Phone No:	(281) 38	35-4200			Fa	<b>x</b> :	(281) 385-4532	•		
24 / HR Phone:										
U.S EPA I.D No:	na	·								
State I.D :	na				SI	C Code	na			
SECTION 2: Billing	Informat	ion								
Company :	Enterpri	se Products Ope	rating, L.P.				*			
Address :	10207 F	M 1942, Attn:	Rachel Whea	ton PO Bo	x 573					
City, State, Zip:	Mont Be	elvieu TX 77580								
Contact :	Mike To	merlin			Tit	tle :	<u> </u>			
Phone No:	(281) 38	35-4200			Fa	<b>x</b> :	(281) 385-4532	•		
SECTION 3: Genera	al Docorin	ation of the Materia	al / Product							
Name of Mateiral			25 ( C	مدلاتاد						
		•								
Detailed Descript			-	_						
1st process (Mero: fractionated to rem								ural gas liq	luid is	
nactionated to rem	1000 04 8	and lower. Oo an	ia ingrici are i	uir anougn	ine merox	process	•			
Physical State :	<b>✓</b> L	_iquid	Sludge		Powde	er				
	<b>.</b>	Solid	Filter C	ake	Combi	nation				
Color:			dark	Od	lor:			sulfide		
Specific Gravity (	Water=1	):	1, 2	De	nsity :		1	0	lbs	/ gal
Layers :	<b>✓</b> 9	Single-Phas	Multi-P	hase						
Container Type :		Orum 🏽	Tote 🗸	Truck	Ot	her (exp	olain)			
Container Size :	5	000								
Number Of Units	 : I	1/wK					·			
		<del></del>	) /	1./	1 , 0	<i>ا</i> مسا	£ 0			
Proper U.S. DOT	Snipping	Name:	otassiva	- Ply	aniki ~	, 56	5 TON			
Class: 8	<del></del>	UN/NA:	<u>un182</u>	4	PG :_	$\mathcal{H}$	<u> </u>	F	RQ:/00	<i>o</i>
Flash Point	t T	рН	-1 $R$	earlive	Sulfden	Rea	itive (yanide	32	Solids	
>160		12-14	_   ``	16-	30-175.103		na =	기를 _	0-2	%
Oil and Grea	se	TOC		Zinc		71	Copper		Nickel	
na_	mg/l	ana a	mg/l	na	mg/i		na mg	4	na	mg/l

The material / product consists of the following materials	Concentration Unit
Patasi'm Hydroxide	5-10 %
Water	90-95 %
ECTION 5: Safety Related Data	
the handling of this material / product requires the use of special prote	ctive equipment, please explain.
andard PPE (caustic suits)	
ECTION 6: Attached Supporting Documents	
st all documents, notes, data, and/or analysis attached to this form as	part of the material / product profile.
one	part of the material representation
ECTION 7: Incompatibilities	
lease list all incompatibilities (if any):	
sids	
ECTION 8: Material Producer's Certification	
eliberate or willful omissions of composition properties exist and that a	
sclosed. I certify that the materials tested are representative of all materials	
$_{2}$ $/A$	
uthorized Signature :	erials described by this document.
sclosed. I certify that the materials tested are representative of all materials uthorized Signature :  rinted Name / Title : not required /  ESS USE ONLY (DO NOT WRITE IN THIS SPACE)	erials described by this document.
rinted Name / Title: not required /	Special Pricing / Analytical Info:
uthorized Signature :   rinted Name / Title : not required /	Date: 9/12/2007  Special Pricing / Analytical Info:
rinted Name / Title: not required / ES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Robben May	Special Pricing / Analytical Info:  OKAY TO MIX WITH WEST TEXA SPLITTER 2 ONLY!!  Any hydrocarbons on top of load put into
uthorized Signature:  rinted Name / Title: not required /  ES USE ONLY (DO NOT WRITE IN THIS SPACE)  ompliance Officer: Robber Day  ate: 10-5-07 Status: Approved Rejected	Special Pricing / Analytical Info:  OKAY TO MIX WITH WEST TEXA S  SPLITTER 2 ONLY!!
uthorized Signature:  inted Name / Title: not required /  ES USE ONLY (DO NOT WRITE IN THIS SPACE)  ompliance Officer: Robber Agriculture  ate: 10-5-07 Status: Approved Rejected	Special Pricing / Analytical Info:  OKAY TO MIX WITH WEST TEXA SPLITTER 2 ONLY!!  Any hydrocarbons on top of load put into hydrocarbon mixture totes.  TO QC find specific gravity, percent suspend solids, pH, and a visual for Oil and Grease (r
uthorized Signature:  rinted Name / Title: not required /  ES USE ONLY (DO NOT WRITE IN THIS SPACE)  ompliance Officer: Robber Approved Rejected	Special Pricing / Analytical Info:  OKAY TO MIX WITH WEST TEXA SPLITTER 2 ONLY!!  Any hydrocarbons on top of load put into hydrocarbon mixture totes.  TO QC find specific gravity, percent suspend solids, pH, and a visual for Oil and Grease (roil or grease allowed). Also determine the
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uthorized Signature:  rinted Name / Title: not required /  ES USE ONLY (DO NOT WRITE IN THIS SPACE)  ompliance Officer: Robber Approved Rejected	Special Pricing / Analytical Info:  OKAY TO MIX WITH WEST TEXA SPLITTER 2 ONLY!!  Any hydrocarbons on top of load put into hydrocarbon mixture totes.  TO QC find specific gravity, percent suspend solids, pH, and a visual for Oil and Grease (roil or grease allowed). Also determine the percent caustic by either titration to pH4 OR using specific gravity and the "handy math calculation" - see shared drive. Sulfides must low.  QC - If solids < .75% & caustic > 7% (by specing gravity; 5% by titration), load in De Ridder trailer. If there are no De Ridder trailers, loa into De Ridder fractank.  If solids < .75%
uthorized Signature:  inted Name / Title: not required /  ES USE ONLY (DO NOT WRITE IN THIS SPACE)  ompliance Officer: Robber Approved Rejected	Special Pricing / Analytical Info:  OKAY TO MIX WITH WEST TEXA SPLITTER 2 ONLY!!  Any hydrocarbons on top of load put into hydrocarbon mixture totes.  TO QC find specific gravity, percent suspend solids, pH, and a visual for Oil and Grease (roil or grease allowed). Also determine the percent caustic by either titration to pH4 OR using specific gravity and the "handy math calculation" - see shared drive. Sulfides must low.  QC - If solids <.75% & caustic >7% (by specigravity; 5% by titration), load in De Ridder trailer. If there are no De Ridder trailers, loa into De Ridder frac tank.  If solids <.75%, put in RO tank and perform RO solids higher, filter before putting in RO tank
rinted Name / Title: not required / EES USE ONLY (DO NOT WRITE IN THIS SPACE) Compliance Officer: Robbert Management of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the seri	Special Pricing / Analytical Info:  OKAY TO MIX WITH WEST TEXA SPLITTER 2 ONLY!!  Any hydrocarbons on top of load put into hydrocarbon mixture totes.  TO QC find specific gravity, percent suspend solids, pH, and a visual for Oil and Grease (roil or grease allowed). Also determine the percent caustic by either titration to pH4 OR using specific gravity and the "handy math calculation" - see shared drive. Sulfides must low.  QC - If solids < .75% & caustic > 7% (by specing gravity; 5% by titration), load in De Ridder trailer. If there are no De Ridder trailers, loa into De Ridder fractank.  If solids < .75%, put in RO tank and perform RO.

3395 Enterprise Produts Operating # 2395



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## **Material / Product Approval Letter**

Date 9/30/2007

Dear Mike Tomerlin

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2395

**Producer:** Enterprise Products Operating, L.P.

Address: 10207 FM 1942, Attn: Rachel Wheaton

Mont Belvieu, TX 77580

#### Material / Product Information

Name of Material / Product Splitter 2 Caustic

**Container Type:** 

#### Detailed Description of Process Generating or Producing the Material / Product:

1st process (Merox Process): Sweetening natural gas liquid): Before running the merox process, the natural gas liquid is fractionated to remove C4 and lower. C5 and higher are run through the merox process.

Color: dark

dark

Odor: sulfide

**pH:** 12-14

**Physical State:** 

Incompatibilities: acids

Safety Related Data/Special Handling:

Standard PPE (caustic suits)

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Producer Info	ormation				
Company :	Enterprise Pro	oducts Operating, I	P.			
Address:	10207 FM 194	12, Attn: Rachel	Wheaton PO Be	ox 573		
City, State, Zip:	Mont Belvieu	TX 77580				
Contact:	Mike Tomerlin			Title:		
Phone No:	(281) 385-420	0		Fax:	(281) 385-4532	
24 / HR Phone:				<u> </u>		
U.S EPA I.D No :	na					
State I.D :	na			SIC Cod	le na	
•						
SECTION 2: Billing	Information					
Company :	Enterprise Pro	ducts Operating, L	P.			
Address:	10207 FM 194	2, Attn: Rachel	Wheaton PO Bo	x 573		
City, State, Zip:	Mont Belvieu T	TX 77580				
Contact :	Mike Tomerlin			Title :		
Phone No:	(281) 385-4200	0		Fax:	(281) 385-4532	
SECTION 3: General		• ` · · · · · · · · · · · · · · · · · ·				
Name of Mateiral	•					
Detailed Descript	tion of the Pro	cess Generating	or Producing th	e Material / Produ	uct:	
					x process, the natura	l gas liquid is
fractionated to ren	nove C4 and lov	wer. C5 and highe	er are run through	the merox proces	SE	
Physical State :	<b>✓</b> Liquid	S	ludge	Powder		
. nyoloui otato .			_			
	■ Solid	<b>₩</b> F	ilter Cake	Combination		
Color:		dark	O	dor:		sulfide
Specific Gravity (	Water=1) :	1 ,	<b>`</b> 2 Do	ensity :	10	lbs / gal
	******			•		
Layers :	✓ Single-	Pnas 📳 W	Iulti-Phase			
Container Type :	Drum	Tote	<b>✓</b> Truck	other (e	xplain)	
Container Size :	5000					
Number Of Units		JWK				
				•		
Proper U.S. DOT	Shipping Name	e: totassic	u- Hydron	لأعلا كالمال	ion	
		UN/NA: UN ]	824	PG: #		
Class:			3 2-1		Andrew .	RO: 1000
Class:		0,0,0,0	·	PG:		RQ: 1000
Class : S		рН				RQ: 1000
			Reactive	Sulfide R	Pecitive Ganides	. •
Flash Poin	t	рН		suffide R		Solids

The material / product consists of the following materials  Potassium the documents  Water  SECTION 5: Safety Related Data  f the handling of this material / product requires the use of special protective equipment, please explain.  Standard PPE (caustic suits)  SECTION 6: Attached Supporting Documents  List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.	or <u>%</u> % %
Water 90-95  EECTION 5: Safety Related Data  If the handling of this material / product requires the use of special protective equipment, please explain.  Standard PPE (caustic suits)  ECTION 6: Attached Supporting Documents	
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ist all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.	
none	
ECTION 7: Incompatibilities	
ECTION 7: Incompatibilities  Please list all incompatibilities (if any):	
cids	
isclosed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature:	
040.	
rinted Name / Title: not required /	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Special Pricing / Analytical	Info:
Compliance Officer: Poblar Thought WEST TEXAS ONL	
Compliance Officer: Lobber Change west TEXAS on	Ä (
	put into
Any hydrocarbons on top of load	
Date: 10-5-07  Status: Approved Rejected Rejected Any hydrocarbons on top of load hydrocarbon mixture totes TO QC find specific gravity, percent	3.
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2396

Noltex #2396



## Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Control Room

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2396

Generator: Noltex

Address: 12220 Strang Road (Attn: Randy Boeding)

La Porte, TX 77571

#### Waste Information

Name of Waste: Oil filters / pads TCEQ Waste Code #: Recycle

Container Type:

**Detailed Description of Process Generating Waste:** 

Clean up of hydraulic oil leaks from machinery and equipment

Color: varies

Odor: hydrocarbon

pH: na

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



Phone: (713) 676-1460

4904 Griggs Road Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 39048

U.S. EPA ID No: TXD008950461 **ISWR No: 30900** 

SECTION 1: Gener	rator Information				
Company:	NOLTEX, L.L.C.				
Address:	12220 Strang Road				
City, State, Zip:	LaPorte, TX 77571				
Contact:	Debbie Dalton		Title:	HS&E Coordinator	
Phone No:	(281) 842-5031		Fax No:	(281) 842-5095	
24/hr Phone:	(281) 842-5031				
U.S. EPA I.D. No:	TXR00001106				
State I.D.	84348		SIC Code:	N/A	
CECTION A. DUIL.	Y. C	A.B	<del></del>		···
SECTION 2: Billing Company:	g Information – 🛛 S	ame as Above			
Address:				**************************************	·
City, State, Zip:	***************************************				
Contact:		Title:			
Phone No:		Fax No	<u></u>	<del> </del>	
- Lindhe Ivo.		1'&X 1\U			
SECTION 3: Gener	ral Description of the	Waste			
Name of Waste: Oil	Filters/Pads				
Detailed Description	of Process Generati	ng Waste: Clean-up of	hydraulic oil leaks	rom machinery & equipm	<u>ent</u>
Physical State:	☐ Liquid	☐ Sludge	☐ Powder		
. s. 2	⊠ Solid	Filter Cake	Combinatio	n	
	ZZ Solite	There cake	Combinatio	ı	
Color: <u>Varies</u>	0	dor: Hydrocarbon	÷		
Color: <u>varios</u>	· ·	401. <u>11,410411041</u>			
Specific Gravity (wa	nter=1): 2	<b>Density:</b> <u>15.00</u> lbs/ga	al .		
~P	-,- =				
Layers:	Single-phase	☐ Multi-phase	e		
•	<b>–</b> • •				
Container Type:	□ Drum	☐ Tote	☐ Truck	Other (expla	in)
Container Size:			IIICK	Other (expla	.111,
Container Size:	<u>55</u>		<del></del>		
Frequency:		☐ Monthly	<b>Quarterly</b>	☐ Yearly	
Number of Units (co	intainers): 10	Other:	•	•	
	, <del></del>	cyclable			
Texas State Waste C	Loue No: Net				
Proper U.S. DOT SI	nipping Name:	Non DOT regulate	ed oil filters/pads		
Class: N/A	UN/NA	N/A	<b>PG:</b> N/A	RQ:	N/A
Flash Point	pH	Reactive Sulfides	Reactive C	vanides Solids	
>200	N/A	N/Amg/I	N/ALmg/I	100%	
Oil&Grease	TOC	Zinc	Copper	Nickel	
N/Amg/I	N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/I	

#### SECTION 4: Physical and Chemical Data

		CONENTS ABLE sts of the following materials	Concentration Ranges are acceptable	Units or %
Oil Filters		Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro	0-100	%
Oil Pads		1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	0-100	%
	. <u></u> <u></u>	19	24	
		E		

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.  $\underline{Standard\ PPE}$ 

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): None Known

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	N/A
TCLP Volatiles:	<u>N/A</u>
TCLP Semi-Volatiles:	<u>N/A</u>
Reactivity:	<u>N/A</u>
Corrosivity:	<u>N/A</u>
Ignitability:	N/A

#### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Date: 9/20/07

Printed Name/Title: Randy Boeding - Senior V	P
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Date: 10-4-07 (Approved) Rejected	Additional Information: \$\\\\35 \dnum 4\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Approval Number: 2396	Recycle

### SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater studge? YES If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms

Byproduct waste glycol Wastewater from paint washes

Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

- If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or	r
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.	

Metals Subcategory

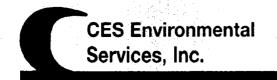
Oils Subcategory

Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Dana Container, 2397 #2397



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

## **Material / Product Approval Letter**

Date 9/30/2007

Dear Ruben Fernandez

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2397

**Producer:** Dana Container **Address:** 902 Sens Road

La Porte, TX 77572

#### Material / Product Information

Name of Material / Product Acetic acid Container Type:

#### Detailed Description of Process Generating or Producing the Material / Product:

Glacial acetic acid

Color: Clear, colorless Odor: Strong, vinegar-like pH: 2.4

**Physical State:** 

**Incompatibilities:** See MSDS

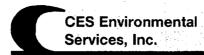
Safety Related Data/Special Handling:

See MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021 Fax: (713) 676-1676

Phone: (713) 676-1460

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461

ISWR No: 30900

SECTION 1: Mater	ial Producer Info	mation									
Company:	Dana Containe	er									
Address :	902 Sens Road	PO Box	1023				N.				****
City, State, Zip:	La Porte TX 77	572								77	
Contact :	Ruben Fernand	dez				Ţ	itle :				
Phone No:	(281) 471-4700	)			- 1	F	ax:	(281) 470	-2570		
24 / HR Phone :				****							
U.S EPA I.D No :	na .										
State I.D:	na					s	SIC Code	na na			
1 1 1 1 1 1 1											
SECTION 2: Billing	Information		· .								
Company:	Dana Containe	r									
Address :	902 Sens Road	I PO Box	1023								
City, State, Zip:	La Porte TX 77	572		-							
Contact:	Ruben Fernand	lez				T	itle :				
Phone No:	(281) 471-4700					: · · · F	ax :	(281) 470	-2570		
						1.12					
SECTION 3: Genera			al / Produ	ıct							
Name of Mateiral	/ Product : Ace	tic acid									
<b>Detailed Descript</b>	ion of the Proc	ess Gene	erating o	r Prod	ucing the	Material	/ Produ	ct:			
Glacial acetic acid									•		
Physical State :	<b>✓</b> Liquid		⊚ SI	udge		Powe	der				
•	Solid ■		☐ Fi	iter Cak	e	Comb	bination				
Color:		Clo	ar, color	loce	Ode	or :		>	Strong	ı, vinegar-l	iko
COIOI .			ai, coloi	1000	Ou	OI .					inc
Specific Gravity (	Water=1) :		1.05		Der	nsity :			8.5-9	9	lbs / gal
Layers :	<b>✓</b> Single-l	Phas	M	ulti-Pha	ase						
Container Type :	Drum		Tote	<b>V</b>	Truck		other (ex	plain)			
Container Size :					No.						
Number Of Units	•	<del></del>		<del></del>							
Proper U.S. DOT	Shipping Name	:				Ace	etic Acid,	, Glacial			
Class : 8		UN/NA:	€_	1N 2	789	PG:	<u> </u>			RQ	: <b>5</b> 000
Flash Poin 104		рН 2.4		Rea	ctive S	inlfide	Reci	tive Ga	nides	S	olids 0 %
Oil and Grea	80	TOC			Zinc		1	Copper			lickel
· +-	mg/l	na	mg/l		na	mg/l	2000 2000 2000	na	mg/l		na mg/l
20.1 200				1.2	- tar	25.		102			777

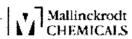
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10 miles			
ECTION 5: Safety Related Dat	a		
the handling of this mater	rial / product requires the use of special pr	otective equipment, please ex	cplain.
e MSDS			
ECTION 6: Attached Supporting	na Documents		
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st an documents, notes, d SDS	iata, and/or analysis attached to this folliff (	as part of the material / produ	or prome.
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MSDS Number: A0326 \* \* \* \* \* \* Effective Date: 05/06/05 \* \* \* \* \* Supercedes: 07/02/02



#### Material Safety Data Sheet

From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865





24 Hour Emergency Telephone 908-859-2151

CHEMTREC 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtree: 703-527-3887

NOTE: CHEMTREC, CANUTED and National Response Camer emergency numbers to be used only in the event of chemical emergences associung a spill leak, the , exposure or accident involving attenuals.

All non-emergency cuestions should be directed to Customer Service (1-800-582-2537) for assistance.

## **ACETIC ACID GLACIAL**

### 1. Product Identification

Synonyms: Acetic acid, methane carboxylic acid; ethanoic acid

CAS No.: 64-19-7

Molecular Weight: 60.05

Chemical Formula: CH3COOH

**Product Codes:** 

J.T. Baker: 5355, 5579, 5844, 6903, 9500, 9501, 9503, 9505, 9507, 9508, 9511, 9513, 9515,

9522, 9524, 9526

Mallinekrodt: 10127, 1302, 2501, 2504, 3121, 5586, 7711, 8817, H979, V155, V193, V194,

V625

### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Acetic Acid	64-19-7	99.5 - 100%	Yes

### 3. Hazards Identification

httn·//www.ithaker.com/msds/englishhtml/a0326.htm

#### **Emergency Overview**

POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. INHALATION MAY CAUSE LUNG AND TOOTH DAMAGE. FLAMMABLE LIQUID AND VAPOR.

SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Poison) Flammability Rating: 2 - Moderate Reactivity Rating: 2 - Moderate

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;

PROPER GLOVES; CLASS B EXTINGUISHER

Storage Color Code: Red (Flammable)

#### Potential Health Effects

#### Inhalation:

Inhalation of concentrated vapors may cause serious damage to the lining of the nose, throat, and lungs. Breathing difficulties may occur. Neither odor nor degree of irritation are adequate to indicate vapor concentration.

#### **Ingestion:**

Swallowing can cause severe injury leading to death. Symptoms include sore throat, vomiting, and diarrhea. Ingestion of as little as 1.0 ml has resulted in perforation of the esophagus.

#### **Skin Contact:**

Contact with concentrated solution may cause serious damage to the skin. Effects may include redness, pain, skin burns. High vapor concentrations may cause skin sensitization.

#### **Eve Contact:**

Eye contact with concentrated solutions may cause severe eye damage followed by loss of sight. Exposure to vapor may cause intense watering and irritation to eyes.

#### **Chronic Exposure:**

Repeated or prolonged exposures may cause darkening of the skin, erosion of exposed front teeth, and chronic inflammation of the nose, throat, and bronchial tubes.

#### **Aggravation of Pre-existing Conditions:**

Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be more susceptible to the effects of the substance.

### 4. First Aid Measures

#### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### Ingestion:

DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### **Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

#### **Eve Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

### 5. Fire Fighting Measures

#### Fire:

Flash point: 40C (104F) CC

Autoignition temperature: 427C (801F) Flammable limits in air % by volume:

lel: 4.0; uel: 16.0

Flammable Liquid and Vapor!

#### **Explosion:**

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Reacts with most metals to produce hydrogen gas, which can form an explosive mixture with air.

#### Fire Extinguishing Media:

Water, dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

#### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures. Water diluted acid can react with metals to form hydrogen gas.

### 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Use water spray to dilute spill to a nonflammable mixture. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Use non-sparking tools and equipment. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker NEUTRASORB® or TEAM® 'Low Na+' acid neutralizers are recommended for spills of this product.

### 7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Protect from freezing. Store above 17C (63F). Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

### 8. Exposure Controls/Personal Protection

#### **Airborne Exposure Limits:**

-OSHA Permissible Exposure Limit (PEL):

10 ppm (TWA).

-ACGIH Threshold Limit Value (TLV):

10 ppm (TWA); 15 ppm (STEL).

#### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

#### Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a full facepiece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

#### **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

#### **Eve Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

### 9. Physical and Chemical Properties

Appearance:

Clear, colorless liquid.

Odor:

9/30/200

Strong, vinegar-like.

Solubility:
Infinitely soluble.

Density:
1.05
pH:
2.4 (1.0M solution)
% Volatiles by volume @ 21C (70F):
100

Boiling Point:
118C (244F)
Melting Point:
16.6C (63F)
Vapor Density (Air=1):
2.1

### 10. Stability and Reactivity

Vapor Pressure (mm Hg):

Evaporation Rate (BuAc=1):

11 @ 20C (68F)

#### Stability:

0.97

Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability. Releases heat and toxic, irritating vapors when mixed with water. Acetic acid contracts slightly upon freezing which may cause the container to burst.

#### **Hazardous Decomposition Products:**

Carbon dioxide and carbon monoxide may form when heated to decomposition. May also release toxic and irritating vapors.

#### **Hazardous Polymerization:**

Will not occur.

#### **Incompatibilities:**

Acetic Acid is incompatible with chromic acid, nitric acid, ethylene glycol, perchloric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, most metals (except aluminum), carbonates, hydroxides, oxides, and phosphates.

#### **Conditions to Avoid:**

Heat, flame, ignition sources, freezing, incompatibles

### 11. Toxicological Information

Oral rat LD50: 3310 mg/kg; skin rabbit LD50: 1.06 g/kg; inhalation mouse LC50: 5620ppm/1-hr; investigated as a mutagen, reproductive effector.

-\Cancer Lists

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Acetic Acid (64-19-7)	No	No	None

### 12. Ecological Information

#### **Environmental Fate:**

When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into air, this material is expected to have a half-life between 10 and 30 days. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. Standard dilution BOD5/TOD = 58% When released into the soil, this material is expected to readily biodegrade. This material is not expected to significantly bioaccumulate. This material has an estimated bioconcentration factor (BCF) of less than 100.

#### **Environmental Toxicity:**

This material is expected to be slightly toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l.

For glacial acetic acid:

EC50 (wheat fumigation) = 23.3 mg/m3/2-hr, effect: leaf injury

LC50 (shrimp) = 100 - 300 mg/l/48-hr

LC50 (fathead minnow) = 88 mg/l/96-hr

This material may be toxic to aquatic life.

### 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### 14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: ACETIC ACID, GLACIAL (WITH MORE THAN 80% ACID,

BY MASS)

Hazard Class: 8, 3 UN/NA: UN2789 Packing Group: II

Information reported for product/size: 450LB

9/30/2007

#### International (Water, I.M.O.)

Proper Shipping Name: ACETIC ACID, GLACIAL (WITH MORE THAN 80% ACID,

BY MASS)

Hazard Class: 8, 3 UN/NA: UN2789 Packing Group: II

Information reported for product/size: 450LB

## 15. Regulatory Information

\Chemical Inventory Status - Part Ingredient					Australia	
Acetic Acid (64-19-7)		Yes	Yes	Yes	Yes	
Chemical Inventory Status - Part 2\						
Ingredient		Korea			Phil.	
Acetic Acid (64-19-7)		Yes	Yes	No	Yes	
Ingredient	RQ		Lis		mical Catg.	
Acetic Acid (64-19-7)	No				No	
\Federal, State & International Re	gulati			2\ T		
Ingredient	CERCL		261.33	8	(d)	
Acetic Acid (64-19-7)	5000		No		0	

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: Yes (Pure / Liquid)

Australian Hazchem Code: 2P

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

### 16. Other Information

NFPA Ratings: Health: 3 Flammability: 2 Reactivity: 0

TANTON OF

#### Label Hazard Warning:

POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. INHALATION MAY CAUSE LUNG AND TOOTH DAMAGE. FLAMMABLE LIQUID AND VAPOR.

#### **Label Precautions:**

Do not get in eyes, on skin, or on clothing.

Do not breathe vapor or mist.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Keep away from heat, sparks and flame.

#### Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases get medical attention immediately.

#### **Product Use:**

Laboratory Reagent.

#### **Revision Information:**

No Changes.

Disclaimer:

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**Prepared by:** Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)

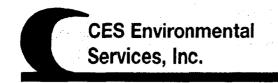
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4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 9/30/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2398

**Producer:** CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

### Material / Product Information

Name of Material / Product Acetic Acid, Glacial Container Type:

### Detailed Description of Process Generating or Producing the Material / Product:

Acetic Acid, Glacial

Color: Clear, colorless Odor: Strong, vinegar-like pH: 2.4

**Physical State:** 

Incompatibilities: See MSDS

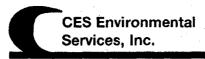
Safety Related Data/Special Handling:

See MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021 Fax: (713) 676-1676

Phone: (713) 676-1460

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

**SECTION 1: Material Producer Information** Company: CES Environmental Services, Inc. Address: 4904 Griggs Rd 4904 Griggs Road City, State, Zip: Houston TX 77021 Contact: Matt Bowman Title: Phone No: (713) 676-1460 Fax: 24 / HR Phone: U.S EPA I.D No: na State I.D: SIC Code na **SECTION 2: Billing Information** CES Environmental Services, Inc. Company: 4904 Griggs Rd 4904 Griggs Road Address: City, State, Zip: Houston TX 77021 Title: Contact: (713) 676-1460 Phone No: Fax: SECTION 3: General Description of the Material / Product Name of Mateiral / Product : Acetic Acid, Glacial Detailed Description of the Process Generating or Producing the Material / Product: Acetic Acid, Glacial Powder Sludge Physical State: **✓** Liquid Solid Filter Cake **⊠** Combination Clear, colorless Strong, vinegar-like Color: Odor: 1.05 Density: 8.5-9 lbs / gal Specific Gravity (Water=1): ✓ Single-Phas Multi-Phase Layers: Other (explain) Container Type : Drum Tote **V** Truck Container Size : -Number Of Units: Acetic Acid, Glacial Proper U.S. DOT Shipping Name: UN/NA: UN 2789 \$I PG: RQ: 5000 Class: Flash Point Solids рΗ Reactive Sulfides Reactive Cyanides 0 % 104 2.4 na Na Zinc Copper Nickel Oil and Grease TOC

mg/l

na

mg/l

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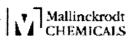
The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
The material / product consists of the following materials  Acetic Acid, Glacial	100	%
Acetic Acid, Glacial	100	. ,0
ECTION 5: Safety Related Data		
the handling of this material / product requires the use of special protective	equipment, please explain.	
ee MSDS		
	**	
ECTION 6: Attached Supporting Documents		
ist all documents, notes, data, and/or analysis attached to this form as part o	of the material / product profile.	
ECTION 7: Incompatibilities		
lease list all incompatibilities (if any): ee MSDS		
ECTION 8: Material Producer's Certification	r  □ analytical data. I hereby ceri	tv that t
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MSDS Number: A0326 \* \* \* \* \* Effective Date: 05/06/05 \* \* \* \* \* Supercedes: 07/02/02



### Material Safety Data Sheet

From: Mallinckrodt Baker, Inc. 222 Red School Lane Phillipsburg, NJ 08865





24 Hour Emergency Telephone, 908-859-2151 CHEMTREC: 1-800-424-9300

....

National Response in Canada CANUTEC: 613-986-6666

Outside U.S. and Canada Chemirec: 703-527-3687

NOTE: CHEMTREC, CANUTEC and National Presponse Center emergency numbers to be used only in the event of chemical emergences sevolving a spall leafs, the Axposure or accident involving chemicals.

All non-emergency avestions should be directed to Customer Service (1-800-582-2537) for assistance.

# **ACETIC ACID GLACIAL**

## 1. Product Identification

Synonyms: Acetic acid, methane carboxylic acid; ethanoic acid

CAS No.: 64-19-7

Molecular Weight: 60.05

Chemical Formula: CH3COOH

**Product Codes:** 

J.T. Baker: 5355, 5579, 5844, 6903, 9500, 9501, 9503, 9505, 9507, 9508, 9511, 9513, 9515,

9522, 9524, 9526

Mallinckrodt: 10127, 1302, 2501, 2504, 3121, 5586, 7711, 8817, H979, V155, V193, V194,

V625

## 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Acetic Acid	64-19-7	99.5 - 100%	Yes

## 3. Hazards Identification

httm://www.ithaker.com/msds/enolishhtml/a0326 htm

9/30/2007

### **Emergency Overview**

POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. INHALATION MAY CAUSE LUNG AND TOOTH DAMAGE. FLAMMABLE LIQUID AND VAPOR.

SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

Health Rating: 3 - Severe (Poison) Flammability Rating: 2 - Moderate Reactivity Rating: 2 - Moderate

Contact Rating: 4 - Extreme (Corrosive)

Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;

PROPER GLOVES; CLASS B EXTINGUISHER

Storage Color Code: Red (Flammable)

#### **Potential Health Effects**

### Inhalation:

Inhalation of concentrated vapors may cause serious damage to the lining of the nose, throat, and lungs. Breathing difficulties may occur. Neither odor nor degree of irritation are adequate to indicate vapor concentration.

### Ingestion:

Swallowing can cause severe injury leading to death. Symptoms include sore throat, vomiting, and diarrhea. Ingestion of as little as 1.0 ml has resulted in perforation of the esophagus.

### **Skin Contact:**

Contact with concentrated solution may cause serious damage to the skin. Effects may include redness, pain, skin burns. High vapor concentrations may cause skin sensitization.

### **Eye Contact:**

Eye contact with concentrated solutions may cause severe eye damage followed by loss of sight. Exposure to vapor may cause intense watering and irritation to eyes.

### **Chronic Exposure:**

Repeated or prolonged exposures may cause darkening of the skin, erosion of exposed front teeth, and chronic inflammation of the nose, throat, and bronchial tubes.

### **Aggravation of Pre-existing Conditions:**

Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be more susceptible to the effects of the substance.

## 4. First Aid Measures

### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion:

DO NOT INDUCE VOMITING! Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### **Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician.

### **Eve Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## 5. Fire Fighting Measures

Fire:

Flash point: 40C (104F) CC

Autoignition temperature: 427C (801F) Flammable limits in air % by volume:

lel: 4.0: uel: 16.0

Flammable Liquid and Vapor!

### **Explosion:**

Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Reacts with most metals to produce hydrogen gas, which can form an explosive mixture with air.

### Fire Extinguishing Media:

Water, dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool.

#### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Water may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures. Water diluted acid can react with metals to form hydrogen gas.

## 6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Use water spray to dilute spill to a nonflammable mixture. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Use non-sparking tools and equipment. Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

J. T. Baker NEUTRASORB® or TEAM® 'Low Na+' acid neutralizers are recommended for spills of this product.

# 7. Handling and Storage

Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Protect from freezing. Store above 17C (63F). Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

## 8. Exposure Controls/Personal Protection

### **Airborne Exposure Limits:**

-OSHA Permissible Exposure Limit (PEL):

10 ppm (TWA).

-ACGIH Threshold Limit Value (TLV):

10 ppm (TWA); 15 ppm (STEL).

### **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

### Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded, a full facepiece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

### **Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

### **Eye Protection:**

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. Physical and Chemical Properties

#### Appearance:

Clear, colorless liquid.

Odor:

Strong, vinegar-like. Solubility: Infinitely soluble. **Density:** 1.05 pH: 2.4 (1.0M solution) % Volatiles by volume @ 21C (70F): 100 **Boiling Point:** 118C (244F) **Melting Point:** 16.6C (63F) Vapor Density (Air=1): 2.1 Vapor Pressure (mm Hg): 11 @ 20C (68F) Evaporation Rate (BuAc=1): 0.97

## 10. Stability and Reactivity

### Stability:

Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability. Releases heat and toxic, irritating vapors when mixed with water. Acetic acid contracts slightly upon freezing which may cause the container to burst.

### **Hazardous Decomposition Products:**

Carbon dioxide and carbon monoxide may form when heated to decomposition. May also release toxic and irritating vapors.

### **Hazardous Polymerization:**

Will not occur.

### Incompatibilities:

Acetic Acid is incompatible with chromic acid, nitric acid, ethylene glycol, perchloric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, most metals (except aluminum), carbonates, hydroxides, oxides, and phosphates.

### **Conditions to Avoid:**

Heat, flame, ignition sources, freezing, incompatibles

## 11. Toxicological Information

Oral rat LD50: 3310 mg/kg; skin rabbit LD50: 1.06 g/kg; inhalation mouse LC50: 5620ppm/1-hr; investigated as a mutagen, reproductive effector.

-\Cancer Lists\----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Acetic Acid (64-19-7)	No	No	None

## 12. Ecological Information

### **Environmental Fate:**

When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into air, this material is expected to have a half-life between 10 and 30 days. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. Standard dilution BOD5/TOD = 58% When released into the soil, this material is expected to readily biodegrade. This material is not expected to significantly bioaccumulate. This material has an estimated bioconcentration factor (BCF) of less than 100.

### **Environmental Toxicity:**

This material is expected to be slightly toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l.

For glacial acetic acid:

EC50 (wheat fumigation) = 23.3 mg/m3/2-hr, effect: leaf injury

LC50 (shrimp) = 100 - 300 mg/l/48-hr

LC50 (fathead minnow) = 88 mg/l/96-hr

This material may be toxic to aquatic life.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: ACETIC ACID, GLACIAL (WITH MORE THAN 80% ACID,

BY MASS)

Hazard Class: 8, 3 UN/NA: UN2789 Packing Group: II

Information reported for product/size: 450LB



### International (Water, I.M.O.)

Proper Shipping Name: ACETIC ACID, GLACIAL (WITH MORE THAN 80% ACID,

BY MASS)

Hazard Class: 8, 3 UN/NA: UN2789 Packing Group: II

Information reported for product/size: 450LB

# 15. Regulatory Information

\Chemical Inventory Status - Part 1 Ingredient					Australia
Acetic Acid (64-19-7)			 Yes	Yes	Yes
Chemical Inventory Status - Part 2	2\				
Ingredient		Korea	a DSL		Phil.
Acetic Acid (64-19-7)		Yes		No	Yes
\Federal, State & International Rec	-SARA RQ	302- TPQ	Lis	SAR st Che	A 313 mical Catg
<u> </u>	gulatio CERCLA		-RCRA-261.33	- <b>-</b> T	SCA-
Acetic Acid (64-19-7)	5000		No	<u>-</u> N	0

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: Yes (Pure / Liquid)

Australian Hazchem Code: 2P

Poison Schedule: S6

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

NFPA Ratings: Health: 3 Flammability: 2 Reactivity: 0

### Label Hazard Warning:

POISON! DANGER! CORROSIVE. LIQUID AND MIST CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. INHALATION MAY CAUSE LUNG AND TOOTH DAMAGE. FLAMMABLE LIQUID AND VAPOR.

#### **Label Precautions:**

Do not get in eyes, on skin, or on clothing.

Do not breathe vapor or mist.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Keep away from heat, sparks and flame.

### Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases get medical attention immediately.

#### **Product Use:**

Laboratory Reagent.

### **Revision Information:**

No Changes.

Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

**Prepared by:** Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)

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# Waste Pre-Acceptance/Approval Letter

Date 9/30/2007

Dear Control Room

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2399

Generator: Noltex

Address: 12220 Strang Road (Attn: Randy Boeding)

La Porte, TX 77571

### Waste Information

Name of Waste: Oily water TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Oily rinse from machinery

Color: varies

Odor: hydrocarbon

**pH:** 4-11

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

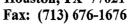
If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021



http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 39048 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	rator Information					
Company:	NOLTEX, L.L.C.					
Address:	12220 Strang Road			-		
City, State, Zip:	LaPorte, TX 7757	1				
Contact:	Debbie Dalton		Title:	HS&E C	oordinator	
Phone No:	(281) 842-5031		Fax No:	(281) 842	2-5095	
24/hr Phone:	(281) 842-5031					
U.S. EPA I.D. No:	TXR00001106					
State I.D.	84348		SIC Code:	N/A		
SECTION 2: Billing	g Information – 🔀 S	Same as Above			<del></del> -	
Company:						
Address:	· · · · · · · · · · · · · · · · · · ·					
City, State, Zip:						
Contact:		Title:				
Phone No:		Fax No:				
SECTION 3: Gener	ral Description of the	Waste				
Name of Waste: Oil						
Detailed Description	of Process Generati	ing Waste: Oily rinse water t	rom machiner	<u>γ</u> .		
Dharias Ct. t.	⊠ τ :		l n			
Physical State:	∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid     ∠ Liquid	Sludge _	Powder	* 1	•	
and particular to	☐ Solid	Filter Cake	Combinatio	n '		
Color: Varies	•	Odor: <u>Hydrocarbon</u>				
Specific Gravity (wa	nter=1): <u>.98-1</u>	Density: 8.34 lbs/gal				
Layers:	Single-phase	Multi-phase				
	Single passe				e e e	
Container Type:	□ Drum	☐ Tote ☐	Truck	П	Other (explain)	
		Tote	HUCK	Ц	Other (explain)	
Container Size:	<u>55</u>	<del></del>	• . —		<del></del>	
Frequency:	☐ Weekly	☐ Monthly ⊠	Quarterly	П	Yearly	
Number of Units (co	<u> </u>	Other:		. —	y	
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Texas State Waste (	Code No: Re	cyclable				
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### SECTION 4: Physical and Chemical Data

The wa	COMPONENTS TABLE ste consists of the following materials	Concentration  Ranges are acceptable	Units or %	
Water	TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL TOTAL	<b>4</b> 100	%	
Hydraulic Oil		3-10	%	
Dirt/Sand/Rust	65.	1-2	%	

$\mathbf{SE}$	CTI	ON	5:	Safety	Related	Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

None  $U_{1/2} - D - TeU$ 

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

None Known Oxiding

### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

· ·	
TCLP Metals:	<u>N/A</u>
TCLP Volatiles:	<u>N/A</u>
TCLP Semi-Volatiles:	<u>N/A</u>
Reactivity:	<u>N/A</u>
Corrosivity:	<u>N/A</u>
Ignitability:	N/A

### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Date: 1/2/07

Printed Name/Title: Kurweylarway		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	\$ 2-11 10	
Compliance Officer: Kahlant Honged	Additional Information: \$\\\\35 \drum + \trans	5
Date: 10-4-07 Approved Rejected	7+36	
Approval Number:	REC	

## SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? X YES

If 'Yes', complete this section.

## PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

<u>Metal.</u>	s Subcategory: Subpart A	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electropla Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment	ating or phosphating operations
Oils S	ubcategory: Subpart B	
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	
<u>Organ</u>	nics Subcategory: Subpart C	
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources	

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory

Oils Subcategory

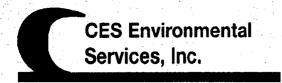
Organics Subcategory

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

BES ETHYLENC 91400L 2364

h 2 - 1 + 8 10- h 8 1



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 9/23/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2364

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

### Material / Product Information

Name of Material / Product Ethylene glycol Container Type:

### Detailed Description of Process Generating or Producing the Material / Product:

Recovered from spent glycol used in production of natural gas

Color: Varies Odor: slight pH: Neutral

**Physical State:** 

Incompatibilities: Oxidizers

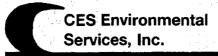
Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

**SECTION 1: Material Producer Information** Company: CES Environmental Services, Inc. Address: 4904 Griggs, Rd City, State, Zip: Houston, TX 77021 Contact: Title: 713-676-1460 713-676-1676 Phone No: Fax No: 24/hr Phone: U.S. EPA I.D. No: State I.D. SIC Code: SECTION 2: Billing Information - Same as Above Company: Address: City, State, Zip: Title: Contact: Phone No: Fax No: SECTION 3: General Description of the Material / Product Name of Material / Product: Ethylene Glycol Detailed Description of Process Generating or Producing the Material / Product: Recovered from spent glycol used in production of natural gas. **Physical State:**  ∠ Liquid Powder ☐ Solid Filter Cake ☐ Combination vanies Color: clear, colorle Odor: slight 9-9.5 1.1-1.2 Density: 9.3 lbs/gal Specific Gravity (water=1): 1-1-149 ☐ Multi-phase Layers: **⊠** Single-phase **Container Type:** Tote  $\boxtimes$ Truck Other (explain) Drum **Container Size:** Frequency: Weekly Monthly **Ouarterly** Yearly Number of Units (containers): Other: Ettylene Non DOT regulated ethylene glycol Proper U.S. DOT Shipping Name: UN/NA: PG: RQ: Class: NA NA NA N/A N/A Flash Point Solids Newton 7 7140

				,
Oil&Grease NAmg/I  Oil&Grease NAmg/I	Zinc <u>NA</u> mg/l	Copper M/mg/l	Nickel <u>√</u> A mg/l	
SECTION 4: Physical and Chemical	<u>Data</u>			
	NTS TABLE		Concentration	Units
The material / product consi	ists of the following materials	s <u> </u>	Ranges are acceptable	or %
Monoetheylene glycol				99/16
Diethylene glycol				0.01
Other glycols				0.01
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
SECTION 5: Safety Related Data	4.00			
If the handling of this material/prod  Standard PPE	uct requires the use of speci	al protective ed	quipment, please explain	<b>!•</b>
SECTION 6: Attached Supporting D	ocuments			
List all documents, notes, data, and/o	r analysis attached to this fo	rm as part of th	ne material / product pro	ofile.
SECTION 7: Incompatibilities				
Please list all incompatibilities (if any)  Oxid 3875	):			
SECTION 8: Material Producer's Ce	artification		Algebra Anna Anna Anna Anna Anna Anna Anna Ann	1 -
The information contained herein is bas attached description is complete and a omissions of composition properties ex tested are representative of all materials	sed on generator knowledg securate to the best of my kn ist and that all known or susp	owledge and a	bility to determine that a have been disclosed. I c	no deliberate or willfu ertify that the materials
Authorized Signature: Not re	quised		_ Date: <u>9-23-700</u>	7
Printed Name/Title:	·		<del></del>	
CES USE ONLY (DO NOT WRITE IN THIS S				
Technical Manager: Robber R	Thank P	rocess Facility		
	pproved Rejected	check: addition	Shared drive -	for
Approval Number: 2364				

## **Material Safety Data Sheet**

### **ANTIFREEZE / ETHYLENE GLYCOL**

SECTION I — Material Identity

SECTION II - Manufacture's Information

SECTION III – Physical/Chemical Characteristics SECTION IV – Fire and Explosion Hazard Data

SECTION V - Reactivity Data SECTION VI - Health Hazard Data

SECTION VII - Precautions for Safe Handling and Use

SECTION VIII - Control Measures

SECTION IX - Label Data

SECTION X - Transportation Data

SECTION XI - Site Specific/Reporting Information SECTION XII - Ingredients/Identity Information

### SECTION I - Material Identity

Item Name Ethylene Glycol

Trade Name Antifreeze/Ethylene Glycol

HAZ Code E

### SECTION II - Manufacture's Information

Manufacture's Name CES Environmental Services, Inc.

Street 4904 Griggs Road

City Houston
State Texas
Country USA
Zip Code 77021

Emergency Phone No. 1-800-424-9300 (CHEMTREC)

Information Phone No. 713-676-1460

### MSDS PREPARER'S INFORMATION

Street 4904 Griggs Road

City Houston State Texas Zip Code 77021

Date MSDS Prepared/Revised 28 May 2007 Date of Technical Review 28 May 2007

**Active Indicator** 

### SECTION III - Physical / Chemical Characteristics

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Appearance / Odor	CLEAR LIQUID WITH MILD (	DDOR	
Boiling Point	387 F		
Melting Point	8 F	•	
Vapor Pressure	0.1		
Vapor Density	2.1		
Specific Gravity	1.2		
Decomposition Temperatu	ure N/K		
Evaporation Rate	>1		
Solubility in Water	100%		
Percent Volatiles by Volur			
Chemical pH	10 – 11		
Corrosion Rate	N/K		
Container Pressure Code	* * * * * * * * * * * * * * * * * * * *		
Temperature Code	8		
Product State Code			

### SECTION IV - Fire and Explosion Hazard Data

Flash Point	227
Flash Point Method	PMCC
Lower Explosion Limit	3.2
Upper Explosion Limit	15.3

Extinguishing Media LARGE: USE ALCOHOL TYPE / ALL PURPOSE FOAMS

SMALL: USE WATER SPRAY, CO2 / DRY CHEMICAL

Special Fire Fighting Procedures DON'T SPRAY POOL FIRES DIRECTLY. COOL FIRE

EXPOSED CONTAINERS WITH WATER. FIREFIGHTERS SHOULD WEAR POSITIVE PRESSURE SCBA AND FULL

PROTECTIVE CLOTHING

Unusual Fire / Explosion Hazards A SOLID STREAM OF WATER / FOAM DIRECTED INTO

HOT, BURNING LIQUID CAN CAUSE FROTHING

### SECTION V - Reactivity Data

Stability YES
Stability Conditions to Avoid N / K

Materials to Avoid STRONG BASES AT HIGH TEMPS, STRON ACIDS,

STRONG OXIDIZING AGENTS AND MATERIALS REACTIVE WITH HJYDROXYL COMPOUNDS CARBON MONOXIDE, CARBON DIOXIDE

Hazardous Decomposition Products

Hazardous Polymerization

NO

Polymerization Conditions to Avoid WILL NOT OCCUR



CES Ethylene Glycol; CONTACT: 713-676-1460; Manufacture's Location See Section II

### SECTION VI - Health Hazard Data

Route of Entry: Skin YES
Route of Entry: Ingestion YES
Route of Entry: Inhalation YES

Health Hazards - Acute / Chronic EYE AND UPPER RESPIRATORY IRRITANT.

MAY CAUSE NAUSEA, VOMITING, HEADACHE, DROWSINESS, BLURRED VISION, CONVULSIONS, COMA OR DEATH IF INGESTED OR INHALED. PROLONGED OF REPEATED SKIN CONTACT MAY CAUSE DERMATITIS OR SKIN SENSITIZATION.

Carcinogenity: NTP NO
Carcinogenity: IARC NO
Carcinogenity: OSHA NO

Explanation of Carcinogenity NONE OF THE COMPONENTS ARE LISTED AS A

CARCINOGEN

Symptoms of Overexposure (INHALE) IRRITATION OF NOSE / THROAT WITH

HEADACHE, PARTICULARLY FROM MISTS. HIGH VAPOR CONCENTRAIONS MAY CAUSE NAUSEA, VOMITING, HEADACHE, DIZZINESS AND IRREGULAR EYE MOVEMENTS. (SKIN) NO ADVERSE EFFECTS

(EYE) LIQUID VAPORS OR MIST MAY CAUSE DISCOMFORT IN THE EYE WITH PERSISTENT

CONJUNCTIVITIS, SEEN AS SLIGHT EXCESS REDNESS OR CONJUNCTIVIA. SERIOUS CORNEAL INJURY IS

NOT ANTICIPATED.

Medical Condition:

Aggrevated by Exposure UNLIKELY TO AGGRAVATE EXISTING MEDICAL

CONDITIONS

Emergency / First Aid Procedures (INHALE) MOVE TO FRESH AIR. IF BREATHING HAS

STOPPED, GIVE CPR. IF BREATHING IS DIFFICULT GIVE OXYGEN. (SKIN) REMOVE CONTAMINATED CLOTHING. WASH THOROUGHLY WITH SOAP AND WATER. (EYES) FLUSH WITH LARGE AMOUNTS OF WATER. (INGEST) NEVER GIVE ANYTHING BY MOUTH TO INDUCE VOMITING TO AN UNCONSCIOUS DROWSY PERSON. OBTAIN MEDICAL ATTENTION IN ALL CASES.

SECTION VII - Precautions for Safe Handling and Use

Steps if material Released / Spilled WEAR APPROPRIATE PROTECTIVE CLOTHING.

COLLECT WITH ABSORBENT MATERIAL AND PLACE IN APPROPRIATE LABELED CONTAINER FOR DISPOSAL.

PERMITTED FLUSH AREA WITH WATER.

Neutralizing Agent N / K

Antifreeze / Ethylene Glycol

05/28/07

Page 3 of 5

SECTION VII - Precautions for Safe Handling and Use (continued)

DISPOSE OF LAW / FEDERAL, STATE AND LOCAL Waste Disposal Method

REGULATION

DON'T DRINK ANTIFREEZE / SOLUTION. AVOID EYE Handling and Storage Precautions

> AND PREPEATED SKIN CONTACT. AVOID BREATHING VAPOR / MISTS. DON'T STORE IN OPENED / UNLABLED

CONTAINERS.

Other Precautions KEEP AWAY FROM OPEN FLAMES / EXCESSIVE HEAT.

SPROPERLY CLEANED

SECTION VIII - Control Measures

IF TLV IS EXCEEDED, USE NIOSH APPROVED Respiratory protection

RESPIRATORY / ORGANIC VAPOR CARTRIDES AND

DUST / MIST PREFILTERS / SUPPLIED AIR RESPIRATOR

Ventilation USE GENERAL / LOCAL EXHAUST AS REQUIRED TO

MAINTAIN EXPOSURE BELOW TLV

**Protective Gloves** CHEMICAL RESTRANT: NEOPRENE / PVC

**Eve Protection** SPLASH - PROOF GOGGLES

APPROPRIATE PROTECTIVE CLOTHING Other Protective Equipment

Work Hygenic Practices REMOVE / LAUNDER CONTAMINATED CLOTHING

**BEFORE REUSE** 

SECTION IX - Label Data

YES **Protect Eve Protect Skin** YES **Protect Respiratory** YES **Chronic Indicator** YES **Contact Code** SLIGHT Fire Code **UNKNOWN** 

Health Code UNKNOWN React Code UNKNOWN

Specific Hazard and Precaution TARGET ORGANS: CENTRAL NERVOUS SYSTEM

- Transportation Data SECTION X

Container Quantity 55 gallons - 5,000 GL

Unit of Measure

SECTION XI - Site Specific / Reporting Information

Volatile Organic Compounds (P / G)

Antifreeze / Ethylene Glycol

05/28/07

Page 4 of 5

CES Ethylene Glycol; CONTACT: 713-676-1460; Manufacture's Location See Section II

Volatile Organic Compounds (G / L)

## SECTION XII - Ingredients / Identity Information

Ingredient Name ETHYLENE GLYCOL, GLYCOL
-----------------------------------------

CAS Number 107211 NIOSH Number KW2975000

Proprietary NO

Percent 80% – 99% OSHA PEL 50 ppm

ACGIH TLV C 127 MG / CUM Recommended Limit 10 MG / CUM

### Ingredient Name WATER

CAS Number 7732185 NIOSH Number ZC0110000

Proprietary NO
Percent 1 – 20%
OSHA PEL N / K
ACGIH TLV N / K
Recommended Limit N / K





4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Waste Pre-Acceptance/Approval Letter**

Date 9/24/2007

Dear KiM Stratton

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2365

Generator: Dixie Chemical

Address: 10901 Bay Area Blvd

Pasadena, TX 77507

### Waste Information

Name of Waste: DBE-6 w/NMA TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:**DIBASIC ESTER-6 with Nadic Methyl Anhydride

Color: yellow/tan

Odor: slightly hydrocarbon pH: 3-6

**Physical State:** 

Incompatibilities: strong oxidizers, acids, alkalis

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

one: (713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Information				
Company:	Dixie Chemical In	c			
Address:	10001 Bay Area B	ilvd			
City, State, Zip:	Pasadena, TX 775	07			
Contact:	Kim Stratton		Title:	Environmental Specialist	
Phone No:	281-474-3271		Fax No:	281291-3387	
24/hr Phone:			•		**
U.S. EPA I.D. No:	TXD008088247		-		
State I.D.	30314		SIC Code:	2869	
SECTION 2: Billing	Information - ⊠ S	Same as Above			
Company:	-				
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No:			
		1 42 110			
SECTION 3: Gener	ral Description of th	e Waste			
Name of Waste: <u>DB</u>	BE-6 w/ NMA				
Detailed Description	of Process Generat	ting Waste: <u>DIBASIC ESTE</u>	R-6 with Nadic	Methyl Anhydride	
Physical State:	∠ Liquid	Sludge [	Powder		
i ny diemi otatet	<u> </u>		_		
	Solid Solid	Filter Cake	<b>Combinatio</b>	A	
Color: yellow/tan	•	Odor: slight hydrocarbon			
Specific Gravity (wa	nter=1): <u>1.1</u>	Density: 9.174 lbs/gal			
Layers:	⊠ Single-phase	☐ Multi-phase			
Lajero.	EZ comfre burne				
Container Type:	☐ Drum	☐ Tote 🖂	Truck	Other (explain)	
Container Size:			5500 gal	Capania,	
Container Size:	<del></del>	· · · · · · · · · · · · · · · · · · ·	<u>5500 yai</u>		
Frequency:	☐ Weekiy	☐ Monthly 🏻	Quarterly	Yearly	
Number of Units (co	•	Other:	~y		
	· <del>-</del>				
Texas State Waste (	Code No: Re	ecycle			
Proper U.S. DOT SI	nipping Name:	Non DOT/Non RCRA	regulated wast	e liquids	
Class: 8	UN/N	A: UN 1760	PG:	1) RQ: N3	A
					-
Flash Point	рН	Reactive Sulfides	Reactive C	yanides Solids	
>200	3 <u>-6</u>	BRLmg/I NA	BRLmg/I		
Oil&Grease	TOC		Copper	Nickel	***************************************
BBI mail NA	BRITADA NA	BBHmg/I NA	BPI mo/I N	A RRIMO/I NA	

#### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE The waste consists of the following materials	Concentration  Ranges are acceptable	Units
Dibasic Ester-6	90-100	%
Nadic Methyl Anhydride	0-10	%
		-
	· · · · · · · · · · · · · · · · · · ·	L

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Standard PPE

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS for both products

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): strong oxidizers, acids, alkalis

#### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	BRL- X	
TCLP Volatiles:	See MSDS X	
TCLP Semi-Volatiles:	see MSDS ×	
Reactivity:	not reactive at normal conditions X	
Corrosivity:	not corrosive based on RCRA guidelines	V
Ignitability:	see MSDS 1	

#### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	 _ Date: <u>9/2</u> 0/07
Printed Name/Title: Kon STROTTW	_

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Poblandly	Process Facility Information: -Blend w/ Black Oil-
Date: 9-22-07 Approved Rejected	Charge \$0.30/ Jal +\$300 / load
Approval Number: 2365	trans + FSC. Please check with
	Matt before offload for blending detail

,

RECYCLE

### SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES ⊠ NO If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation

Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources

(1)	If the	waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)		waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chron Coppe	ium: 0.2 mg/L ium: 8.9 mg/L r: 4.9 mg/L i: 37.5 mg/L
(3)		waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



# INVISTA Material Safety Data Sheet

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DBE-6

130000000144

Revised 1-MAY-2004

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Formula

: CH3OOC (CH2) nCOOCH3, n=3,4

Molecular Weight

: Avg. 173

Tradenames and Synonyms

DIBASIC ESTER-6 DIMETHYL ADIPATE

HEXANEDIOIC ACID, DIMETHYL ESTER

Company Identification

MANUFACTURER/DISTRIBUTOR

INVISTA S.à r.l.
INVISTA Building
4123 East 37th Street North
Wichita, KS 67220

PHONE NUMBERS

Product Information: 1-877-446-8478 (outside the U.S. 770-792-4221)
Transport Emergency: CHEMTREC 1-800-424-9300 (outside U.S.703-527-3887)

Medical Emergency : 1-613-348-3616

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material

DIMETHYL ADIPATE

CAS Number \*

627-93-0 >9**8.5** 

\_\_\_\_\_\_

HAZARDS IDENTIFICATION

Potential Health Effects

DBE-6 may irritate skin, eyes, nose and throat. May cause blurry vision.

HUMAN HEALTH EFFECTS:

Skin contact may cause skin irritation with discomfort or rash. Eye contact may cause eye irritation with discomfort, tearing, or blurring of vision. Inhalation may cause irritation of the upper respiratory passages, with

# INVISTA Material Safety Data Sheet

Page 2

coughing and discomfort. Some individuals who have been overexposed by inhalation or skin contact experienced blurry vision.

The mechanism of blurred vision in humans is unknown. Based on observed effects from animal studies, we believe that some symptoms of pre-existing eye disease could be aggravated by overexposure to this material.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

#### INHALATION

If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

#### SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

#### EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

#### INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

#### Notes to Physicians

Activated charcoal mixture may be beneficial. Suspend 50 g activated charcoal in 400 mL water and mix well. Administer 5 mL/kg, or 350 mL for an average adult.

TINE STATEMENT AND ASSESSED

#### FIRE FIGHTING MEASURES

#### Flammable Properties

Flash Point : 113 C (235 F)

Method : TCC

Flammable limits in Air, % by Volume

LEL : 0.8 UEL : 8.1

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# INVISTA Material Safety Data Sheet

Page 3

Autoignition

: 360 C (680 F)

Actual Autoignition Temperature (AIT) can be affected by the concentration of vapors and oxygen, vapor/air contact time, pressure, volume, catalytic impurities, etc. Process conditions should be analyzed to determine if the AIT's may be higher or lower.

Vapor forms explosive mixture with air. Hazardous gases/vapors produced in fire are carbon monoxide.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Cool tank/container with water spray.

ACCIDENTAL RELEASE MEASURES

Safequards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Initial Containment

Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Recover undamaged and minimally contaminated material for reuse and reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

\_\_\_\_\_\_\_

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

Storage

Do not mix with strong oxidants, acids, or alkalies. Store in a well ventilated place. Keep container tightly closed.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Page 4

#### Engineering Controls

Use sufficient ventilation to keep employee exposure below recommended limits.

#### Personal Protective Equipment

#### EYE/FACE PROTECTION

Wear safety glasses. Wear coverall chemical splash goggles when possibility exists for eye and face contact due to splashing or spraying material.

#### RESPIRATOR

A NIOSH approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a NIOSH approved positive pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

#### PROTECTIVE CLOTHING

Wear impervious clothing, such as gloves, apron, boots, or whole bodysuit as appropriate.

Recommended glove and clothing material: Butyl Rubber.

#### Exposure Guidelines

Exposure Limits

DBE-6

PEL (OSHA) TLV (ACGIH) : None Established

: None Established

AEL \*

: 1.5 ppm, 10 mg/m3, 8 Hr. TWA This limit is for DBE.

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

#### PHYSICAL AND CHEMICAL PROPERTIES

#### Physical Data

Boiling Point Vapor Pressure

: 227-230 C (441-446 F) : <0.05 torr @ 20 C (68 F) : 10 C (50 F)

Melting Point : 10 C (50 F)
% Volatiles : 100 WT% @ 20 C (68 F)
Evaporation Rate : <0.1 (Butyl Acetate=1.0)
Solubility in Water : 2.4 WT% @ 20 C (68 F)

: Sweet Odor Form : Liquid Color : Clear

130000000144

# INVISTA Material Safety Data Sheet

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Specific Gravity

: 1.064 @ 20 C (68 F)

STABILITY AND REACTIVITY

Chemical Stability

Stable.

Incompatibility with Other Materials

Incompatible or can react with strong oxidizers, acids, alkalies.

Decomposition

Decomposes with heat.

Polymerization

Polymerization will not occur.

\_\_\_\_\_\_

TOXICOLOGICAL INFORMATION

# Animal Data

DIMETHYL ADIPATE

Skin absorption LD50: > 1000 mg/kg in rabbits Oral LD50 : 7500 mg/kg in rats

The material is a mild to moderate eye irritant and a mild skin irritant. It was of very low toxicity by ingestion and of moderate toxicity by skin contact.

The information below is based on toxicity testing of a DBE mixture of dimethyl glutarate (66%), dimethyl adipate (17%), and dimethyl succinate (17%), and may be applicable to DBE-6. It is provided to supplement the above information.

DIBASIC ESTERS MIXTURE (DBE)

Inhalation 4-hour LC50: >11 mg/L in rats
Inhalation 1-hour LC50: >10.7 mg/L in rats

The mixture is a mild to severe skin irritant, but is not a skin sensitizer in animals. Toxic effects described in animals from exposure by inhalation include upper respiratory tract irritation. A single 4-hour exposure to 60 ppm caused transient corneal opacity and transient increases in the distance from the cornea to the anterior surface of the lens of the eye. Toxicity described in animals from repeated exposure by inhalation include decreased weight gain, absolute and relative liver weight decrease, and degeneration of olfactory epithelium (nasal tissue). Toxicity described in animals from repeated exposure by ingestion include weight loss, but there were no

pathological abnormalities noted.

A single application of 10 uL to the eye caused corneal opacity. The administration of 10-100 uL of a similar mixture caused corneal opacity, transient increases in corneal thickness, and transient corneal anesthesia. A single application of approximately 60 mg/kg to the skin caused transient increases in the distance from the cornea to the anterior surface of the lens of the eye.

The mixture does not produce genetic damage in animals, or in bacterial cell cultures, but it was positive in one study with cultured mammalian cells. Animal testing indicates that this mixture does not have developmental, or reproductive effects.

ECOLOGICAL INFORMATION

Ecotoxicological Information

AOUATIC TOXICITY:

DBE

96 hour LC50 - Fathead minnows: 18-24 mg/L. Moderately toxic.

48 hour LC50 - Daphnia magna: 112-150 mg/L

Biodegradation Information:

The DBE-6 component, dimethyl adipate, was tested for biodegradability using the 28-day closed bottle test. A minimum of 60% biodegradation must be reached in a 14 day window after exceeding the 10% level in order to pass this test and be rated as readily biodegradable. The component in DBE-6 passed this test and, therefore, DBE-6 is considered readily biodegradable.

Dimethyl adipate - 58% biodegradability in day 7 - 84% biodegradability in day 14

DISPOSAL CONSIDERATIONS

Waste Disposal

sewer system.

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Recover nonusable free liquid and dispose of in approved and permitted incinerator. Recover nonusable free liquid and dispose of in approved and permitted biological treatment system. Recover contaminated water and dispose of in approved and permitted biological treatment system. Remove nonusable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. Do not flush to surface water or sanitary

TRANSPORTATION INFORMATION Shipping Information Not Regulated as a hazardous material by DOT, IMO, or IATA. REGULATORY INFORMATION U.S. Federal Regulations TSCA Inventory Status : Reported/Included. TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312 Acute : Yes : No Chronic Fire : No Reactivity : No Pressure : No HAZARDOUS CHEMICAL LISTS SARA Extremely Hazardous Substance: No CERCLA Hazardous Substance : No SARA Toxic Chemical VOC's for DBE-6 per the EPA Federal Register/Volume 57, No. 22/, 2/3/92/Page 3945, considered to be 100% VOC (1062 gr/ltr). Canadian Regulations CLASS D Division 2 Subdivision B - Toxic Material. Skin or Eye OTHER INFORMATION NFPA, NPCA-HMIS NPCA-HMIS Rating Health : 1 Flammability

Personal Protection rating to be supplied by user depending on use conditions.

: 0

## Additional Information

Reactivity

The hydrogen cyanide concentration in this product is so low (<10 ppm) as to be toxicologically insignificant when this product is used as a solvent. However, when this product is chemically reacted with alcohols, and methanol is recovered from that reaction and purified for reuse by distillation, concentration of

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INVISTA
Material Safety Data Sheet

Page 8

highly volatile impurities such as hydrogen cyanide to toxicologically significant levels can occur in the waste stream from this process. Processors using this product as a raw material should be aware of this potential hazard.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: INVISTA MSDS Coordinator Address: DuPont Building Room 6054-A, Wilmington, DE 19898 Telephone: 302-773-0904

End of MSDS

<sup>™</sup> Registered Trademarks

LYCRA, Stainmaster, Antron, Comforel, Coolmax, Cordura, Supplex, Tactel, Teflon, Thermolite, Adi-Pure, C12 Corfree, DBE, Dytek, NYCO, SolarMax, Elaspan, and Terathane are Registered Trademarks of their respective companies.





# **MATERIAL SAFETY DATA SHEET**

## DIXIE CHEMICAL COMPANY, INC.

Revised Date: May 17, 2007

P.O. Box 130410 Houston, TX 77219-0410

> (713) 863-1947 FAX: (713) 863-8316

**SECTION 1 – CHEMICAL IDENTIFICATION** 

Trade Name:

Nadic® Methyl Anhydride

Synonym:

NMA:

Date of Issue: June 14, 2004

Methyl-5-norbornene-2,3dicarboxylicanhydride; 4-7-

Methanoisobenzofuran-1,3-dione

Formula:

 $C_{10}H_{10}O_3$ 

Chemical Family:

Anhydride

Chemical Use:

Chemical intermediate.

Telephone Number:

Information

(281) 474-3271

**Emergency Number:** 

Chemtrec

(800) 424-9300 Domestic

(703) 527-3887 International

**HMIS Hazard Rating** 

Health:

2

Fire:

Reactivity:

1

0 PPE rating to be supplied by user

depending on use conditions.

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Least

# **SECTION 2 – HAZARDS IDENTIFICATION**

Inhalation:

May cause irritation to the nose, throat, and respiratory tract. May cause sensitization

resulting in asthmatic individuals or individuals with asthma. Aerosol inhalation may

cause fluid retention and swelling in the lungs (edema) or bronchitis.

Skin Contact:

May cause irritation, redness, swelling, and drying. Dermatitis may result from

repeated contact.

Eye Contact:

May cause severe irritation or burns. May aggravate pre-existing disorders.

Ingestion:

Effects are unknown. May cause irritation, pain, nausea, and vomiting.

<u>SECTION 3 – COMPOSITION</u>

Components

Percentage

TLV

CAS#

Nadic® Methyl Anhydride

>97%

Not Established

25134-21-8

**SECTION 4 – FIRST AID MEASURES** 

Inhalation:

Remove victim to fresh air. Get medical attention. If breathing is difficult, give

oxygen. If not breathing, administer artificial respiration.

Skin Contact:

Immediately remove contaminated clothing and shoes. Wipe excess material from

skin and flush with water for at least 15 minutes. Use soap if available or follow by

washing with soap and water. Get medical attention.

Eye Contact:

Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the

upper and lower lids. Get medical attention.

Ingestion:

DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

# **SECTION 5 – FIREFIGHTING MEASURES**

Extinguishing Media:

Use water, foam, dry chemical, or carbon dioxide (CO<sub>2</sub>). Material reacts with

water to produce heat and Nadic Methyl Acid. Use water in flooding quantities

to fight fire.

Special Firefighting

Firefighters should wear NIOSH approved self-contained breathing apparatus.

Procedures/Precautions:

Responders should wear protective clothing to prevent skin contact. Move

containers from fire area. If unable to move, cool sealed containers with water.

Unusual Fire and

Toxic vapors such as oxides of carbon, aldehydes, and organic acids will be

emitted upon thermal decomposition.

Environmental Note:

**Explosion Information:** 

Prevent entry into waterways.

# **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Protective Measures: Evacuate area of unprotected personnel. Eliminate sources of ignition. Stay upwind and out of low areas. Wear personal protective equipment (See section 8) when responding to spills.

Spill Management: Stop source of leak if safe to do so. Dike and contain spill. Use water spray (fog) to reduce vapors. If vapor cloud forms, blanket area with water fog and foam. Use vacuum truck or pump to storage/salvage vessels. Clean up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. Spray area with water to remove trace residue. Contain run-off from residue flush and dispose of properly. Prevent entry into waterways, sewer, or confined areas. Remove contaminated trace residues from soil and dispose of in same manner as material. For small spills, clean up residue with an absorbent such as clay, sand or other suitable material. Place in non-leaking container and dispose of material properly.

**Disposal**: Proper disposal should be evaluated based on regulatory status of this material (refer to section 13).

# SECTION 7 - HANDLING AND STORAGE

Containers do not have to be grounded and bonded when material is transferred, but it is recommended as a good practice. Store in a cool, dry place. Keep away from heat, sparks, and flames.

# SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Respiratory Protection: NIOSH approved respiratory protection for organic vapors.

Ventilation: Utilize local exhaust to control high vapor connections in confined areas.

**Protective Gloves:** Utilize appropriate impervious chemical gloves.

Eye Protection: Chemical goggles and possibly a face shield. Have eyewash facilities readily

available.

Other Protective

Wear additional protective clothing to prevent skin contact. This may include

Equipment: chemical resistant boots and chemical resistant suits.

Work Practices: Use good personal hygiene practices. Wash hands before eating, drinking,

> smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

# SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 132°C (270°F) at 2 mm Hg or ca. 140°C (284°F) at 10 mm Hg

**Melting Point:** Not Established

Molecular Weight: 178.19

Not Established Volatility/Vol. (%):

Vapor Pressure (mm Hg): 5 mm Hg at 120°C (248°F) Vapor Density (Air = 1): 6.1 g/L at 20°C (68°F)

Not Established Solubility in H<sub>2</sub>O:

Appearance/Odor: Pale yellow to tan liquid / Slight odor.

Not Established Odor Threshold:

1.2-1.25 at 20°C (68°F) Specific Gravity ( $H_2O = 1$ ):

pH: ca.4 (pH of diacid by analogy to HHPAA) 2.4 (10% aqueous

soln.)

Not Established Viscosity (cps)

Evap. Rate (Butyl Acetate = 1): Not Established

Flash Point: 135°C (275°F) PMCC, ASTM D93

Not Established Lower Explosive Limit: Upper Explosive Limit: Not Established Not Established Autoignition Temperature:

# **SECTION 10 – STABILITY AND REACTIVITY**

Stable. Chemical Stability:

Sources of ignition and incompatibles. Will react with water to produce Conditions to Avoid:

free acid and heat.

Incompatible Materials: Water, acids, bases, and oxidizing agents

Oxides of carbon. **Decomposition Products:** 

Hazardous Polymerization:

200°C (392°F)

# **SECTION 11 – TOXICOLOGICAL INFORMATION**

The toxicological effects of this mixture have not been thoroughly investigated.

Carcinogenicity listed by:

NTP: No

IARC: No

**OSHA: No** 

ACGIH

Nadic® Methyl Anhydride

TLV:

N.E.

STEL:

N.E.

OSHA

Nadic® Methyl Anhydride

PEL:

N.E.

STEL:

N.E.

Inhalation: LCLo

 $750 \text{ mg/m}^3 \text{ (rat)}$ 

Skin: LD50:

4920 mg/kg (rat)

Ingestion:

LD50: LD50: 914 mg/kg (rat)

Injection:

100 mg/kg (rat)

# **SECTION 12 – ECOLOGICAL INFORMATION**

No data available.

# SECTION 13 – DISPOSAL INFORMATION

Place in a city, state, or federally permitted disposal facility. Handle in accordance with all applicable regulations.

# SECTION 14 – TRANSPORTATION INFORMATION

Proper Shipping Name:	Corrosive liquids, n.o.s. (Methyl Norbornene Dicarboxylic Anhydride)
Primary Hazard Class:	8
Secondary Hazard Class:	No
Identification Number:	UN 1760
Packing Group:	III
Reportable Quantity:	No
Marine Pollutant:	No
Label(s) Required:	CORROSIVE

# SECTION 15 - REGULATORY INFORMATION

All substances are listed on, or are exempt from reporting.

TSCA 12(b) Export Notification: Not Listed

California Proposition 65: Not Listed

## **SARA Hazard Notification:**

B - Glasses, Gloves

C - Glasses, Gloves, Apron

D - Faceshield, Gloves, Apron

E - Glasses, Gloves, Dustmask

F - Glasses, Gloves, Apron, Dust

Respirator

H - Goggles, Gloves, Apron, Vapor Respirator

I - Glasses, Gloves, Dust/Vapor Respirator

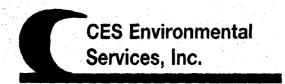
J - Goggles, Gloves, Apron, Dust/Vapor Respirator

K - Supplied Air, Gloves, Full Protective Suit, Boots

# Disclaimer

The information contained in the Material Safety Data Sheet is based on technical data that Dixie Chemical Company believes to be reliable and is provided to our customers at no cost. It is intended for use by persons having technical skill and at their own discretion and risk. Dixie Chemical Company will assume no liability in connection with any uses of this information and no warranties, expressed or implied, are made with regards to this information since conditions of use are outside Dixie Chemical Company's control.

CES # 2366



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 9/26/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2366

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

## Material / Product Information

Name of Material / Product Low Flash Recovered Black Oil Container Type:

#### Detailed Description of Process Generating or Producing the Material / Product:

Recovered oil from various customers

Color: varies - dark Odor

Odor: varies pH: neutral

**Physical State:** 

Incompatibilities: Oxidizers

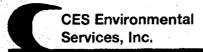
Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Inforr	nation							
Company :	CES Environme	ntal Services, Inc						<u> </u>	
Address :	4904 Griggs Rd	4904 Griggs Ro	ad					·	
City, State, Zip:	Houston TX 770	)21							
Contact:	Matt Bowman				Ti	tle :			
Phone No:	(713) 676-1460				Fa	ix:	···		
24 / HR Phone:									
U.S EPA I.D No :	na								•
State I.D:	na				SI	C Code na	<u> </u>		
SECTION 2: Billing	Information								•
Company :	CES Environme	ntal Services, Inc							
Address :	4904 Griggs Rd	4904 Griggs Ro	ad	-					
City, State, Zip :	Houston TX 770	21							
Contact :	Matt Bowman				Ti	tle :			
Phone No:	(713) 676-1460				Fa	ix :			
					,				
SECTION 3: Genera	al Description of the	he Material / Produ	ict	ه داد	}				
Name of Mateiral	/ Product : Low !	flash neceven	ed blo	ue oi	•				
<b>Detailed Descript</b>	ion of the Proce	ess Generating o	r Produc	ing the N	/laterial /	Product:			
Recovered oil from	n various custome	ers							
Physical State :	<b>✓</b> Liquid	· S	udge	ſ	Powde	er			
,					_	!			
	Solid	l∰ FI	Iter Cake	L	Comb	mation			
Color:	·	varies - da	ark	Odo	r:			varies	
Specific Gravity (	 Water=1) :	API 21-2	9	 Dens	sitv :		7-8		lbs / gal
	<del></del>				•				
Layers:	✓ Single-P	has 📳 M	ulti-Phas	е					
Container Type :	Drum	Tote	<b>✓</b>	Truck	Of	her (explain)			
Container Size :									
Number Of Units	•								
Number of office	• · · · · · · · · · · · · · · · · · · ·	_							
Proper U.S. DOT	Shipping Name	:		Flamm	able Liq	uids, n.o.s., U	N 1993, PG		
Class: 3		UN/NA: UN I	993		PG:			RQ:_	na
Flash Poin		рH	Book	vve Su	Labor	Par At	<i>Cyanides</i>	Soli	ds
<140	·	neutral	8		· 1200		na	n	
			<u> </u>	na Z					
Oil and Grea		TOC		Zinc	ma/l	Cop		Nicl na	
na	mg/l	na mg/l		na	mg/l	na	a mg/l		1119/1

SECTION 5: Safety Related Data  If the handling of this material / product requires the use of special protective equipment, please explain.  Standard PPE  SECTION 6: Attached Supporting Documents List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.  ISDS  SECTION 7: Incompatibilities  Please list all incompatibilities  Please list all incompatibilities  Please list all incompatibilities (if any):  Didicizers  Section 8: Material Producer's Certification The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby cerity that the bove and attached description is complete and accurate to the best of my knowledge and ability to determine that no eliberate or willful omissions of composition properties exist and that all known or suspected hazards have been is closed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature:  Printed Name / Title: Not required /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu Polymore Rejected  Special Pricing / Analytical Info: Test for flow, ASA, API 9!™ Special Pricing / Analytical Info: Test for flow, ASA, API 9!™ Special Customen Jacquire mon Recommended Treatment: Churk with Muthor be the local ing	지수 있는 사람들 가게 되는 하는 하면 사람들이 되는 것은 그리고 공무를 위해 없는 것이다. 나가 다	MPONENTS TABLE ct consists of the following	materials	- 古典教授 A A A A A A A A A A A A A A A A A A A	ncentration s are acceptable	Units or %
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the information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby cerity that the bove and attached description is complete and accurate to the best of my knowledge and ability to determine that no eliberate or willful omissions of composition properties exist and that all known or suspected hazards have been isclosed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature: ☐ Date: 9/24/2007  Date: 9/24/2007  Special Pricing / Analytical Info: Test for flesh, ash, ash, ash, ash, ash, ash, ash, a						
cove and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been sclosed. I certify that the materials tested are representative of all materials described by this document.  Suthorized Signature:  Date: 9/24/2007  Date: 9/24/2007  Special Pricing / Analytical Info:  Test for flesh, ash, ap I gtarbane and accurate to the best of my knowledge and ability to determine that no deliberate or willful properties exist and that all known or suspected hazards have been such as a superior of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the sec	ECTION 8: Material Producer's Cer	tification_	* 74			
CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu Perband Manuara Test for flosh, ash, ap J grants and drive specific customer lagrangement Recommended Treatment:  Check with Matt	bove and attached description eliberate or willful omissions o isclosed. I certify that the mate	is complete and accurate t f composition properties e	to the best of my kno exist and that all kno	owledge and wn or susped described by	ability to determine to cted hazards have be of this document.	hat no
Compliance Officer: Prabhakar Thangudu Perhant Thanga Test for flesh, ash, ap I gtar BSX W Cheik Showed drive specific customer lagrifice me approval Number:  2366  Recommended Treatment:  Cheik with Matt	rinted Name / Title : Not requ	ired /				
Date: 9/24/2007 Status: Approved Rejected Recommended Treatment:  Check with Matt	CES USE ONLY (DO NOT WRIT	E IN THIS SPACE)		Special F	Pricing / Analytical In	fo:
Date: 9/24/2007 Status: Approved Rejected Recommended Treatment:  Check with Matt		D A.	Pilanga	Test +	or flash, ash, A	PJ gla
Approval Number: 2366  Recommended Treatment:  Check with Matt	Compliance Officer: Prabhak	ar Thangudu Lebbar		BSS	W. Cheik Share	d denve
check with matt	Date: 9/24/2007 S	Status: (Approved)	Rejected	Recor	nmended Treatment:	11
BOLONS MALAGER.						att
	pproval Number :	2366				•

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard 29CFR 1910 1200. Standard must be consulted for specific requirements.

# QUICK IDENTIFIER

Common Name: CES Low Flash Recovered Black Oil

SECTION 1 - MAN	IUFACTURER'S	NAME							*	
Manufacturer's	IOI AO IOILEA O	147110162	<del></del>		<u> </u>			<del> </del>		
Name:	<b>CES Environm</b>	ental Servi	ces, Inc.							
Address:			-		Emerg	ency				
	4904 Griggs R	load	<u> </u>			one No		13) 676-1	460	· ————————————————————————————————————
City, State, and Zip:		77004				Informa		401 070 4	400	
<del></del>	Houston, Texa	s //021			Cail:		(/	13) 676-1	460	
Signature of Person	.e	Act Doume			Date					
Responsible for Prepara	ition (optional): IV	latt Bowma	an	<del></del>	Prepai	red: 1/	15/07			
SECTION 2 - HAZ	ARDOUS INGRE	DIENTS/ID					:	· · ·		
			OSH		ACGIH			xposure	%	CAS
Hazardous Component(	s) Chemical & Comm	non Name(s):	PEL		TLV	L	_imits		(optional)	) No.
Recycled, Dewatere	ed Petroleum Oils	s	5mg/	M <sup>3</sup> 5	img/M <sup>3</sup>					68476-33-
				•.						
Contains:				/ s.						
Aliphatic and Aroma	atic Detroloum Ll	.dracarban	~ **						99%	
Aliphatic and Aroma	alic Petroleum Hy	ydrocarbon	15					<del></del> -	9976	
Halogens									<1000	nnm
i lalogelis		<del></del>		<del> </del>	<del></del>			<del></del>	11000	эрт
Polynuclear Aromat	tic Hydrocarbons								<0.01%	
i Olymudical Aromai	do riyarocarbons	<del></del>	<del></del>	<del></del>				<del></del>	40.0176	<u> </u>
Water and Sedimer	.+								<3.0%	
	11								0.070	
vvaler and Sedimer	IL .			<del></del>						
i, ·									<0.75%	6
Ash	IL.								<0.75%	6
Ash		EL for mine	eral oil mis	sts					<0.75%	6
i, ·		EL for mine	eral oil mis	sts.					<0.75%	6
Ash * 5mg/M³ ACGIH T	LV and OSHA P				s.				<0.75%	6
Ash * 5mg/M³ ACGIH T	LV and OSHA P				S.				<0.75%	6
Ash * 5mg/M <sup>3</sup> ACGIH T ** Including but not	LV and OSHA P	notor oil and	d used inc	lustrial oil	S.				<0.75%	6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHYS  Boiling	LV and OSHA P	notor oil and	d used inc	lustrial oil	S.	V	/apor			6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHYS  Boiling	LV and OSHA Plimited to used m	notor oil and	d used inc	lustrial oil	S.		•	: (mm Hg)	<0.75%	6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHYS	LV and OSHA P limited to used m SICAL & CHEMI Vapor	CAL CHAF Specific Gravity: (H <sub>2</sub>	d used inc	lustrial oil	S.		•	: (mm Hg)		6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHY:  Boiling  Point: 450°F	LV and OSHA P limited to used m SICAL & CHEMI Vapor	notor oil and CAL CHAF Specific	d used inc RACTERI 20 ml) 0	lustrial oil STICS 87-0.91	S.		•	: (mm Hg)		6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHYS  Boiling  Point: 450°F	LV and OSHA P limited to used m SICAL & CHEMI Vapor	CAL CHAF Specific Gravity: (H <sub>2</sub>	d used inc RACTERI (20 ml) 0 e Reactivity	lustrial oil STICS 87-0.91			•	: (mm Hg)		6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHYS  Boiling Point: 450°F  Solubility In Water: Nil	LV and OSHA P limited to used m SICAL & CHEMI Vapor	CAL CHAF Specific Gravity: (H <sub>2</sub>	d used inc RACTERI 20 ml) 0 e Reactivity Water:	lustrial oil STICS 87-0.91	s. None		•	: (mm Hg)		6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 – PHY: Boiling Point: 450°F  Solubility In Water: Nil	ILV and OSHA P limited to used m SICAL & CHEMI Vapor Density (Air = 1)	CAL CHAF Specific Gravity: (H; Unavailable	d used inc  RACTERI  20 ml) 0  e  Reactivity  Water:  Melting	lustrial oil STICS 87-0.91	None	F	Pressure	: (mm Hg)		6
* 5mg/M³ ACGIH T  ** Including but not  SECTION 3 – PHY: Boiling Point: 450°F  Solubility In Water: Nil Appearance	LV and OSHA P limited to used m SICAL & CHEMI Vapor	CAL CHAF Specific Gravity: (H; Unavailable	d used inc RACTERI 20 ml) 0 e Reactivity Water:	lustrial oil STICS 87-0.91		F	Pressure	: (mm Hg)		6
* 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHYS Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c	ILV and OSHA Plantied to used missical & CHEMI Vapor Density (Air = 1)	CAL CHAF Specific Gravity: (H; Unavailable	RACTERI  20 ml) 0  e  Reactivity Water: Melting Point:	lustrial oil STICS 87-0.91	None Not appl	licable	Pressure	: (mm Hg)		6
* 5mg/M³ ACGIH T  ** Including but not  SECTION 3 – PHYS Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c	ILV and OSHA Plantied to used missical & CHEMI Vapor Density (Air = 1)	CAL CHAF Specific Gravity: (H; Unavailable	RACTERI  20 ml) 0  e  Reactivity Water: Melting Point:	lustrial oil STICS 87-0.91	None	licable	Pressure	: (mm Hg)		6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHY: Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c	limited to used magnetic strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strai	CAL CHAF Specific Gravity: (H; Unavailable	d used ince  RACTERI  20 ml) 0  e  Reactivity Water: Melting Point:	lustrial oil STICS 87-0.91	None Not appl	Filicable	Pressure	: (mm Hg)		6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHY: Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c	ILV and OSHA Plantied to used missical & CHEMI Vapor Density (Air = 1)	CAL CHAF Specific Gravity: (H; Unavailable	d used ince  RACTERI  20 ml) 0  e  Reactivity Water: Melting Point:	lustrial oil STICS 87-0.91	None Not appl	Filicable	Pressure	: (mm Hg)		6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 – PHY3  Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c  Flash Point (PMCC)  Arsenic:	ILV and OSHA Planting Imited to used many SICAL & CHEMIC Vapor Density (Air = 1)  olor w/petroleum  1: <140°F  <2.0 ppm	CAL CHAF Specific Gravity: (H; Unavailable	d used ince  RACTERI  20 ml) 0  Reactivity  Water:  Melting  Point:	lustrial oil STICS 87-0.91 n	None Not appl <50.0 p	licable ppm ppm	Pressure	: (mm Hg)		6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 – PHY3  Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c  Flash Point (PMCC)  Arsenic:	limited to used magnetic strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strain of the second strai	CAL CHAF Specific Gravity: (H; Unavailable	d used ince  RACTERI  20 ml) 0  Reactivity  Water:  Melting  Point:	lustrial oil STICS 87-0.91	None Not appl	licable ppm ppm	Pressure	: (mm Hg)		6
* 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHY3 Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c  Flash Point (PMCC)  Arsenic:  Cadmium	ILV and OSHA Planting Imited to used many sical & CHEMIC Vapor Density (Air = 1)  olor w/petroleum  >: <140°F  <2.0 ppm  <1.0 ppm	CAL CHAF Specific Gravity: (H; Unavailable	d used ince  RACTERI  20 ml) 0  e  Reactivity Water: Melting Point:  So A	lustrial oil STICS 87-0.91 n dium: uminum:	None Not appl <50.0 p <15.0 p	Filicable ppm ppm	Pressure	: (mm Hg)		6
* 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHY3 Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c  Flash Point (PMCC)  Arsenic:  Cadmium	ILV and OSHA Planting Imited to used many SICAL & CHEMIC Vapor Density (Air = 1)  olor w/petroleum  1: <140°F  <2.0 ppm	CAL CHAF Specific Gravity: (H; Unavailable	d used ince  RACTERI  20 ml) 0  Reactivity  Water:  Melting  Point:	lustrial oil STICS 87-0.91 n dium: uminum:	None Not appl <50.0 p	licable ppm ppm	Pressure	: (mm Hg)		6
* 5mg/M³ ACGIH T  ** Including but not  SECTION 3 – PHYS Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c  Flash Point (PMCC)  Arsenic:  Cadmium  Vanadium	ILV and OSHA Planting Imited to used many sical and check the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second street of the second str	CAL CHAF Specific Gravity: (H; Unavailable	d used ince  RACTERI  20 ml) 0  e  Reactivity Water: Melting Point:  So A Ch	lustrial oil STICS 87-0.91 n dium: uminum: romium	None Not appl <50.0 p <15.0 p <2.0 pp <100.0	licable ppm ppm pm	Pressure	: (mm Hg)		6
* 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHY: Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c  Flash Point (PMCC)  Arsenic:  Cadmium  Vanadium  Sulfur	ILV and OSHA Planting Imited to used many sical and content of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	CAL CHAF Specific Gravity: (H; Unavailable	d used ince  RACTERI  20 ml) 0  e  Reactivity Water: Melting Point:  So  A  Ch  Lea	lustrial oil STICS 87-0.91 n dium: uminum: romium	None Not appl <50.0 p <15.0 p	licable ppm ppm pm	Pressure	: (mm Hg)		6
* 5mg/M³ ACGIH T  ** Including but not  SECTION 3 - PHY: Boiling Point: 450°F  Solubility In Water: Nil Appearance And Color: Dark c  Flash Point (PMCC)  Arsenic:  Cadmium  Vanadium  Sulfur All product is filtered	ILV and OSHA Planting of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	CAL CHAP Specific Gravity: (H; Unavailable odor	d used ince  RACTERI  20 ml) 0  e  Reactivity Water: Melting Point:  So  A  Ch  Lea	lustrial oil STICS 87-0.91 n dium: uminum: romium	None Not appl <50.0 p <15.0 p <2.0 pp <100.0	licable ppm ppm pm	Pressure	: (mm Hg)		6
Ash  * 5mg/M³ ACGIH T  ** Including but not  SECTION 3 – PHY: Boiling Point: 450°F  Solubility n Water: Nil Appearance And Color: Dark c  Flash Point (PMCC)  Arsenic: Cadmium  Vanadium	ILV and OSHA Planting of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the s	CAL CHAF Specific Gravity: (H; Unavailable	d used ince  RACTERI  20 ml) 0  e  Reactivity Water: Melting Point:  So  A  Ch  Lea	lustrial oil STICS 87-0.91 n dium: uminum: romium	None Not appl <50.0 p <15.0 p <2.0 pp <100.0	licable ppm ppm pm	Pressure	: (mm Hg)		6
Ash  5 5mg/M³ ACGIH T  5 1ncluding but not  SECTION 3 – PHYS  Boiling Point: 450°F  Bolubility In Water: Nill Appearance And Color: Dark c  Flash Point (PMCC)  Arsenic:  Cadmium  Vanadium  Sulfur All product is filtered	ILV and OSHA Planting Imited to used management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second management of the second managemen	CAL CHAP Specific Gravity: (H; Unavailable odor	d used ince  RACTERI  20 ml) 0  e  Reactivity Water: Melting Point:  So  A  Ch  Lea	dium: uminum: ad	None Not appl <50.0 p <15.0 p <2.0 pp <100.0	licable ppm ppm pm	Pressure	: (mm Hg)		6

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard
29CFR 1910 1200. Standard must be consulted for specific requirements.

QUICK IDENTIFIER

Common Name: CES Low Flash

Recovered Black Oil

SECT	TION	4 – 1	IRE	& EXPLOSIC	ON DATA	· · ·		:			-	:
Flash	Mir			Method			Flammable Limits	LEL		UEL		
Point:	<1	40	F	Used	Close (		in Air % by Volume	Lower	Unknown	Upper	Unkno	own
Auto –												
Tempe		: N/A	١	. 1	Extinguisher:	Carbon D	ioxide/Foam/Dr	Chemical/	Water Mist	·		
Specia				Onlik nambain							مانام	araduata
Fightin	g Proc	eaure	s:	Seir-contain	ed breatnin	g appara	tus to protect ag	ainst the na	zardous errec	cts of comi	Justible	products
				and oxygen	deficiencie	S						
Unusua	al Fire	and				NFP	A Class: Comb	ustible Lic	juid II			
Explos	ion Ha	zards	:	When heate	ed above its	flashpoi	nt, this material v	vill release	vapors which	can burn	or be ex	plosive in
	**********	AP-1		confined sp	aces if expo	sed to a	source of ignition	1		·. ·		
									• •			
				ICAL HAZAI		CTIVITY	DATA)			· ·		
Stability	y:	Stab	able		Conditions to Avoid	Q+	able		est.			
Incomp	atibilit		16	<u> </u>	to Avoid		3016					
		•	: Stro	ng Oxidizing	Agents							
												ļ
Hazard	ous				. :				***			
Decom	positio	n Pro	ducts:	Carbon Mon	oxide, Carb	on Dioxi	de, Hydrogen Ch	loride, and	Sulfur Dioxid	е		
Hazard	ous		1	/lay Occur □	]:	Condition	ns					
Polyme	rizatio	n:	Will	Not Occur ⊠	] '	to Avoid:	Incomplete	combustio	n may form c	arbon mor	oxide.	
				·			<del>.</del>		: :			
CECT	ION	٠.	I	TILLIAZADE								
1. Acut		0 – r	ICAL	TH HAZARD	13		· · · · · · · · · · · · · · · · · · ·	<del></del>				
		ause	eve a	nd skin irritatio	n.			•				
Signs a			<u> </u>	· · · · · · · · · · · · · · · · · · ·			······································					
Sympto	ms of	Expos	sure: S	Skin: Irritation	/Dermatitis.							
			[	Eyes: Irritation	ı, Redness, a	and Tearin	a				•	
Medical							*					
		gravat	ed by	Exposure: Skin	Irritation/De	rmatitis						
2. Chro		horate	any of	idy mico dove	lanad skin a	ancor afto	r their skin was ex	nacad to use	ad motor oil twi	ico a wook i	without h	eina washed
!	ı a ıa	ooiai	Jiy Sil	ady, finice deve	nopeu skin c	ancer ane	I HIGH SKIII WAS EX	poseu to use	sa motor on twi	ce a week	Without D	ellig washed
0	ff for	most	of the	ir life span.  W	hile this one	study is n	ot conclusive, sub	stances four	nd to cause car	ncer in labo	ratory an	imals may
Chemic				r in humans.	National Tox	vicologic	Yes 🗌	I.A.R.C	Yes 🗌		OSHA:	Yes 🗌
or Poter				~	Program:	ricologic	No ⊠	Monogra	=		OOHA.	No ⊠
Emerge			gen. I		i rogiam.		140 🖂	Wionogra	pila 140 🖂			140 23
First Aid	Proc	edure	s: EY	ES: Flush eye	s with plenty	of water	for several minute	s. Get medi	cal attention if i	irritation per	rsists.	
			SK	IN: Wash with	plenty of so	ap and wa	ater. Get medical	attention if ir	ritation persists	3.		
			INC	SESTION: Do	not induce v	omitina (	Get medical attent	ion				
									novo to frank	. Cak	lical	
			IINI				ausea or drowsine			i. Get med	ical	
				at	tention if bre	athing bed	comes difficult or in	ritation persi	sts.			

Material Safety Data Sheet

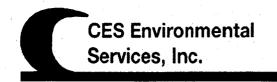
May be used to comply with OSHA's Hazard Communication Standard 29CFR 1910 1200. Standard must be consulted for specific requirements.

## QUICK IDENTIFIER

Common Name: CES Low Flash Recovered Black Oil

Irritation: Not expected to be a problem unless oil mists are generated.
ROUTES 2. Eyes: Mild irritant. Use splash protection goggles. OF
ENTRY 3. Sun: Mild irritant. Use gloves and protection.
4. Ingestion: Low toxicity. Do not take internally.
SECTION 7 – SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES
Precautions to be Taken at Handling and Storage: Use skin protection, gloves, and eye protection.
Other Precautions: Do not use welding or cutting torch on or near container or storage vessel.
Steps to be taken in case material is released or spilled: Contain spill using oil absorbents (granular, pads, booms). Remove flame sources.
Waste Disposal Methods (consult Federal, State, and Local Regulations): Follow Federal and State disposal regulations.
SECTION 8 – SPECIAL PROTECTION INFORMATION/CONTROL MEASURES
Respiratory Protection (specify type): Not required under normal conditions of use. If oil mists are generated above 5 mg/m³, then a
NIOSH/MSHA approved respirator is advised in the absence of proper environmental controls.  Ventilation: Not required Mechanical
under normal Local N/A Special Other conditions of use. Exhaust (general) Below TLV's N/A N/A
Protective Eye Gloves: Neoprene or rubber Protection: Safety glasses or goggles
Other Protective
Clothing or Equipment: Impervious clothing and boots
Work/Hygienic Practices: Do not take internally; avoid skin contact; wash hands thoroughly; and do not get in eyes.

Ruiet Flex 3367 # 2367



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 9/25/2007

Dear Ramond Bindiola

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2367

Generator: QuietFlex Manufacturing Company

Address: 4518 Brittmoore

Houston, TX 77041

## **Waste Information**

Name of Waste: Recyclable RCRA empty drums

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** RCRA empty drums last containing various products

Color: na

Odor: na

pH: na

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Information				
Company:	Quietflex Manufa	cturing Company LP			
Address:	4518 Britmoore R	oad			
City, State, Zip:	Houston, TX 770	41			
Contact:	Waseem Ahmed		Title:	·	
Phone No:	(713) 849-2163		Fax No:		
24/hr Phone:	(713) 849-2163		_		
U.S. EPA I.D. No:	N/A		~~~	37/4	
State I.D.	87631		SIC Code:	N/A	
SECTION 2: Billing	Information – 🛛	Same as Above	tal		
Company:					
Address:					
City, State, Zip:					
Contact:		Title:			
Phone No:		Fax No:			
CT CTTON A	1000	***			
SECTION 3: Gener	al Description of th	<u>e Waste</u>			
Name of Waste: Rec Detailed Description		ty <u>Drums</u> ing Waste: <u>RCRA empty</u>	drums last containi	ng various p	roducts.
Physical State:	☐ Liquid	☐ Sludge	Powder		
•	∑ Solid	Filter Cake			
Color: VaresNone	V A	Odor: NA			•
Color: <u>varesinone</u> /	• / •	Juoi/			
Specific Gravity (wa	ter=1): <u>1-1.5</u>	Density: Na lbs/gal			
Layers:	Single-phase	☐ Multi-phase		.*	
Container Type:	□ Drum	☐ Tote	Truck	$\boxtimes$	Other (explain)
Container Size:	55 G	<del>_</del>	_		• •
	<u> </u>	<u></u>		•	
Frequency:	☐ Weekly	☐ Monthly	Quarterly		Yearly
			Quarterly	السا	i early
Number of Units (co		Other:			• _
Texas State Waste C	ode No: Re	ecycled			
Proper U.S. DOT Sh	ipping Name:	Recyclable RCRA	Empty Drums		
Class: Na	UN/N	A: Na	PG: Na		RQ: Na
	•		<del></del>		
	47°			2000 L	
Flash Point	pH	Reactive Sulfides	Reactive Cy	anides	Solids
>200 /2G	<u>Na</u>	0mg/l	<u>0</u> mg/l		<u>100</u> %

Oil&Grease Namg/I	TOC Namg/I	Zinc <u>Na</u> mg/l	Copper Namg/I	Nickel Namg/l		
	al and Chemical Data	<u>  Na</u> nig/i	Namy/I	<u>  Na</u> mg/i	<del>.</del>	
	COMPONENTS T	ARIF		Concentration	Units	
The w	vaste consists of the foll			Ranges are acceptable	or %	
Plastic Drums				0-100	%	
Steel Drums				0-100	%	
						•
		·				
						**
SECTION 5: Safety						
	s waste requires the use	e of special protective of	equipment,	please explain.		
Level D PPE		e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l				
SECTION 6: Attach	ed Supporting Docume	ents				
List all documents, no	otes, data, and/or analy	 vsis attached to this for	m as nart e	of the waste approval packa	σe.	
None	over, and any aniar or aniar		in as part	or the waste approvar passis	.8	
SECTION 7: Incom	<u>patibilities</u>					
Please list all incompa	atibilities (if any):					
<u>None</u>						
SECTION 8: Genera	ator's Knowledge Docu	mentation				
Laboratory analysis of generator knowledge		characteristics, listed	below, WA	S NOT PERFORMED base	ed upon the fo	llowing
TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles Reactivity: Corrosivity: Ignitability:	$\begin{array}{c} \frac{X}{X} \\ \frac{X}{X} \\ \frac{X}{X} \\ \frac{X}{X} \end{array}$					
SECTION 9: Genera	tor's Certification					
The information conta attached description is omissions of composit tested are representativ	ined herein is based on s complete and accurate tion properties exist and we of all materials describ	e to the best of my kn I that all known or susp	owledge ar	analytical data. I hereby cond ability to determine that rds have been disclosed. I determine that the beautiful data.	no deliberate	or willfu
Authorized Signature	::	1/1		Date: 1 25 7/		
Printed Name/Title:	No Signature Required	<b>\</b>				
CES USE ONLY (DO NO	WRITE IN THIS SPACE)					
Compliance Officer:	Lollang Th	god 1	Additional I	nformation: Accdm		
		ed Rejected _				
Approval Number:	2367					

<u>S1</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 437		e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co
Is	this material a wastewater or wastewater sludge?   YES   NO	)	
If	'Yes', complete this section.	**************************************	
Pl	LEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE	CATEGORY, GO TO 1	THE NEXT PAGE.
Meta	als Subcategory: Subpart A		
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions		
	Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment	g or phosphating operati	ons
Oils .	Subcategory: Subpart B		
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products		
	Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources		
	Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes		
<u>Orga</u>	nics Subcategory: Subpart C		
	Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations		
	Tank clean-out from organic, non-petroleum sources	•	

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory. (1)

(2)			rease less than 10 waste should be			low in concentrations	in excess
	Cadmium: 0.2 Chromium: 8						
	Copper: 4.9 n Nickel: 37.5 n	•		; ;			
(3)			ease less than 10 listed above, the	• .		admium, chromium, category.	opper, or
	☐ Meta	ls Subcategory					
	Oils 9	Subcategory		•			
•	☐ Organ	nics Subcategory	1				

# **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



# Waste Pre-Acceptance/Approval Letter

Date 9/25/2007

Dear Brandon Dougles

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2368

Generator: BW Services

Address: 1100 Wayne Drive

Angleton, TX 77515

## Waste Information

Name of Waste: Natural gas condensation heavies

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Recoverable product from cleaning a railcar

Color: colorless

**Odor:** none to mercaptan

pH: na

**Physical State:** 

**Incompatibilities:** all ignition sources, oxidizers

Safety Related Data/Special Handling:

PPE for extremely flammable materials-ground drum

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.



DB

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Producer Information		
Ситрацу:	BW Services		
Address:	1100 Wayne Dr.	<u> </u>	
City, State, Zip:	Angleton, TX 77515		
Contact:	Brandon/Connie	Title:	Management
Phone No:	979-848-8800	Fax No:	979-848-9990
24/hr Phone:	979-848-8800		
U.S. EPA L.D. No:	TXD086467800		
State I.D.	30207	SIC Code	NA
		•	
	Information - Same as Above		
Company:			
Address:			
City, State, Zip:			
Contact:	Title:		
Phone No:	Fax No:		
	al Description of the Material / Product		
negatied negatibation	roduct: Natural Gas Condensation hof Process Generaling or Producing the Mater	EAVILS  (al/Product:	Recyclable Product recovered from cleaning a
Railcar			
Physical State:	□ Liquid □ Sludge □     □ Solid □ Filter Cake □	Powder Combination	A Para Caracana Caracana Caracana Caracana Caracana Caracana Caracana Caracana Caracana Caracana Caracana Cara
Color: Coloriess	Odor: none to mercaptan		
Specific Gravity (wa	ter=1):		
Layers:	Single-phase Multi-phase		
Container Type:	☑ Drum ☐ Tote ☐	Truck	Other (explain)
• •		1 Luck	Other (exhiain)
Container Size:	<u>55 G</u>		-
Frequency:	☐ Weekly ☐ Monthly 🛇	Quarterly	☐ Yearly
Number of Units (co		•	<del></del>
1111101 01 01110 (00	· - ^ ——		
• *	<u>KE</u> CYCLE		
Proper U.S. DOT Sh	ipping Name:		
Class: 2.1 3	UNNA: 1954 UN 1997	PG: A	RQ: Na
Flash Point	L-II N/A	LNIA	Solids
< 140	pH N/A	N/A	Solids 0%
- 177			1 0 70
·			
	1		

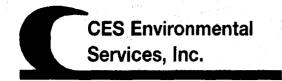
95/01.9

9731 373 E17:0T

SEP-12-2007 12:28 From:

	i						
Oil&Grease	TOC	Zinc	Copper	- <del>10.20</del> 	Nickel		
Name/	Namg/I	Omg/I	Omg/I		Omg/l	st.	
SECTION 4: Phys	  cal and Chemical l	Data :		2000 a.s.			
	CONTROLES				मार्गकार्ग <b>ा</b>	Craff	
The mater		ts of the following ma	terials	Ranges	re acceptable	or%	
Natural Gas hea	Vies			100		%	
			<del></del> ,	·			
SECTION 5: Safet	Related Data						
If the handling of the	is material / produ	ict requires the use o	of special protecti	ve equipme:	ıt, ple <del>ase</del> explair	n	
PPE for extremely h	ammable materials-	Stonud quitu					
SECTION 6: Attac	hed Supporting Dr	ocuments					
	notes, data, and/or	analysis attached to	this form as part	of the mate	rial / product pr	ofile.	
None							
SECTION 7: Incom							
Please list all incom	patibilities (if any)	į					
All Ignition Sources	1, Oxidizer	2					
SECTION 8: Mate	rial Producer's Ce	rtification					
	i						
		ed on 🛭 generator kn					
attached description	is complete and a	ocurate to the best of	my knowledge a	nd ability to	determine that	no deliberate c	z will
attached description omissions of compo	is complete and a sition properties exi	ecurate to the best of ist and that all known	my knowledge a	nd ability to	determine that	no deliberate c	z will
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Notional Oil well va3330 # 2370



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 9/26/2007

Dear Melissa Geigley

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2370

Generator: National Oilwell Varco

Address: 12950 W. Little York

Houston, TX 77041

## Waste Information

Name of Waste: Foam Component Part A

**TCEQ Waste Code #: 00303011** 

Container Type:

**Detailed Description of Process Generating Waste:** 

Out of date/off spec unused material

Out of date/off spee unused material

Odor: slight aromatic

pH: na

**Physical State:** 

Color: amber/brown

**Incompatibilities:** oxidizers, elevated temperarure, moisture

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



AN

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener	ator Information			
Сотрапу:		arco (West Little York)		
Address:	12950 W. Little Yo		<del></del>	
City, State, Zip:	Houston, TX 7704	1		
Contact:	Ed Joye		Title:	EHS Mgr.
Phone No:	713-856-4145		Fax No:	713-435-2093
24/hr Phone:	CES-713-676-1460		-	A A A
U.S. EPA I.D. No:	TXT490014180		•	<i>(</i> <b>A</b>
State I.D.	32145		SIC Code:	<i>N</i> A
SECTION 2: Billing Company: Address:	Information – 🛛 S	ame as Above		
City, State, Zip:				
Contact:		Title:		
Phone No:		Fax No:		
SECTION 3: General Name of Waste: Foat Detailed Description	m Component Part A		Spec-Unused M	<u>faterial</u>
Physical State:	⊠ Liquid □ Solid	Sludge ☐ Filter Cake ☐	Powder Combinatio	n
Color: Amber/Brown	0	dor: slight Aromatic		
Specific Gravity (wat	er=1): <u>1.24</u>	Density: 10.3 lbs/gal		
Layers:	Single-phase	Multi-phase		
Container Type: Container Size:	<b>∑ Drum</b> 55 gal	Tote	Truck	Other (explain)
Frequency:	☐ Weekly	Monthly	Quarterly	
Number of Units (con		Other:	Q 44J	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Texas State Waste Co	- <del></del>	30 609+ 3011		
Proper U.S. DOT Shi		Non-RCRA; Non-DO	T Regulated Ma	nterial
Class: NA	UN/NA	: NA	PG: NA	RQ: NA
Flash Point >150	NA	Reactive Sulfides	Reactive C	5-40%
Oil&Grease	TOC	Zinc Dmg/I	Copper	Nickel Oma/L

#### SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials		Concentration Ranges are acceptable	Units or %		
Polymeric Diphenylmethane Diisocyanate			100	%	
			:		
			· · · · · · · · · · · · · · · · · · ·		

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level D

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

## **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers and elevated Temperatures, moisture

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>X</u>
TCLP Volatiles:	<u>X</u>
TCLP Semi-Volatiles:	X
Reactivity:	<u>X</u>
Corrosivity:	X
Ignitability:	X

#### SECTION 9: Generator's Certification

The information contained herein is based on 🛛 generator knowledge and/or 🔲 analytical data. I hereby certify that the	ie above and
attached description is complete and accurate to the best of my knowledge and ability to determine that no delibera	
omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that t	he materials
tested are representative of all materials described by this document.	

Authorized Signature: Ed Dyl	Date: 7/17/07
Printed Name/Title: Ed JoyE, EHS MER.	

CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Robben A  Date: 9-22-07 (pproved) .ejected	Additional Information: 100 cc/ Drawn
Approval Number: 2370	15

Stabilize & put in class 1 day box. Do not mix with payeds Geigley, Melissa

<u>SE</u>	CTION 10: Waste Receipt Classifi	cation Under 40 CFR	<u>437</u>		
Is t	this material a wastewater or wastewa	ter sludge?  YES	⊠ NO		
[f	Yes', complete this section.				
PL	EASE CHECK THE APPROPRIAT	E BOX. IF NO APPRO	OPRIATE CA	TEGORY, GO TO	THE I
<u>Meta</u>	ls Subcategory: Subpart A				
	Spent electroplating baths and/or slu Metal finishing rinse water and slud Chromate wastes Air pollution control blow down was Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater the Waste acids and bases with or without Cleaning, rinsing, and surface prepar Vibratory deburring wastewater	ges ter and sludges han 136 mg/l ut metals	ectroplating or	phosphating oper	ations
Ħ	Alkaline and acid solutions used to	clean metal parts or equi	pment		
Oils S	Subcategory: Subpart B		<b>,</b>	·	
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum s Interceptor wastes Off-specification fuels Underground storage remediation wa Tank clean-out from petroleum or oi Non-contact used glycols Aqueous and oil mixtures from parts Wastewater from oil bearing paint w	ources  aste ly sources cleaning operations	S		
	Landfill leachate Contaminated groundwater clean-up Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or ep Wastewater from organic chemical p	poxies formulation roduct operations	urces		
	Tank clean-out from organic, non-pe	a Oreant Sources			

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess (2) of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, cop	per,	OF
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.		

Metals Subcategory
Oils Subcategory
Organics Subcategor

Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

# # Sealed Air

# MATERIAL SAFETY DATA SHEET

QUICK-A Page 1 of 6 Issued 8/2004

Protective Packaging Division 10 Old Sherman Tumpike Danbury, CT 06810 203-791-3500 Fax: 203-791-3618

#### **EMERGENCY NUMBERS:**

Sealed Air Corporation: (203) 791-3500 For emergency and general information

8:30am-5:00pm, (Eastern Time) Monday-Friday

CHEMTREC: (800) 424-9300 For Chemical Emergency - spill, leak, fire, exposure or accident

24 hours

#### **SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

Product Name:

INSTAPAK OUICK® COMPONENT "A"

Chemical Name:

Polymethylene Polyphenylisocyanate

Trade Name:

Polymeric MDI

Chemical Family:

Aromatic Isocyanates

Chemical Formula:

Not Available

# SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS No.	<u>Wt.%</u>	OSHA-PEL	ACGIH-TLV
9016-87-9	100	Not Listed	Not Listed
•			
101-68-8		0.02 ppm	0.005 ppm
		(Ceiling)	(TWA)
Not Listed		Not Listed	Not Listed
	9016-87-9	9016-87-9 100	9016-87-9 100 Not Listed  101-68-8 0.02 ppm (Ceiling)

This product is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### **SECTION 3 - HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

<u>Health Hazards:</u> Irritating to eyes, respiratory system and skin. Repeated inhalation of aerosols at levels above the occupational exposure limit could cause respiratory sensitization and risk of serious damage to respiratory system. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyperreactive response to even minimal concentrations of MDI may develop in sensitized persons. Sensitized persons should not be exposed to any mixture containing unreacted MDI.

<u>Physical Hazards:</u> Reacts slowly with water to produce carbon dioxide that may rupture closed containers. This reaction accelerates at higher temperatures.

Appearance: Dark brown liquid.

Odor: Slightly aromatic (musty).

Note: Read the entire MSDS for a more thorough evaluation of the hazard information on this product.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Sealed Air Corporation. The data on this sheet relates to the specific material designated herein. Sealed Air Corporation assumes no legal responsibility for use or reliance upon these data.

#### # Sealed Air

Protective Packaging Division 10 Old Sherman Tumpike Danbury, CT 06810 203-791-3500 Fax: 203-791-3618 QUICK-A Page 2 of 6 Issued 8/2004

#### **SECTION 4 - FIRST AID MEASURES**

<u>Inhalation:</u> Remove patient from further exposure and obtain medical attention. Treatment is symptomatic for primary irritation or difficulty in breathing. If breathing is labored, qualified personnel should administer oxygen. Apply artificial respiration if breathing has ceased or shows signs of failing. Asthmatic-like symptoms, if manifested, may develop immediately, or be delayed for up to several hours.

<u>Skin Contact</u>: Remove contaminated clothing. Immediately wash affected area thoroughly with soap and water. Some organic materials such as corn oil or propylene glycol are effective in decontaminating MDI from the skin when applied immediately. Contaminated clothing should be thoroughly cleaned before reuse. If irritation, redness, or a burning sensation develops and persists, obtain medical advice.

<u>Eye Contact:</u> Immediately flush eyes with copious amounts of water for a minimum of 15 minutes, holding lids open with fingers. If irritation persists, repeat flushing. Refer individual to a physician for immediate follow-up.

<u>Ingestion:</u> Do NOT induce vomiting. Provided the patient is conscious, wash mouth out with water then give 1 or 2 glasses of water to drink. Refer person to medical personnel for immediate attention.

**Note to Physicians**: Symptomatic and supportive therapy as indicated. Following severe exposure medical follow-up should be monitored for at least 48 hours.

## **SECTION 5 – FIRE FIGHTING MEASURES**

Flash Point: 390°F (199°C) [Pensky-Martens Closed Cup]

<u>Flammable Limits (lower)</u>: Not available <u>Flammable Limits (upper)</u>: Not available

Extinguishing Media: Water, carbon dioxide (CO<sub>2</sub>), dry chemical, or appropriate foam. If water is used, large quantities are required. Reaction between water and hot isocyanate may be vigorous. Contain run-off water with temporary barriers.

<u>Fire Fighting Procedures:</u> As appropriate for surrounding materials/equipment.

<u>Fire and Explosion Hazards:</u> Containers may burst under intense heat. Due to reaction with water, a hazardous build-up of pressure could result if contaminated containers are re-sealed.

<u>Fire Fighting Protective Equipment:</u> Firefighters must wear self-contained breathing apparatus and full protective clothing (Bunker gear).

NFPA Hazard Code:

Health:

Flammability:

Reactivity:

1

2

Special Hazard:

None

QUICK-A Page 3 of 6 Issued 8/2004

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Evacuate area surrounding the spill and prevent further spillage, leakage or entry into drains. Eye and skin protection should be worn during spill cleanup and ventilation maintained. If the potential for airborne concentrations of MDI above the PEL exists, then respiratory protection should be worn. Contain and cover spill with loose absorbent (earth, sand, sawdust or other absorbent material), or absorbent pillows, pads or socks. Collect absorbed material in open containers or plastic bags, and treat with deactivating solution (90% water, 8% concentrated ammonia, 2% detergent). Allow to stand uncovered for 48-72 hours to permit carbon dioxide to escape and solidification to occur. Wash spill area with deactivating solution and let stand for 30 minutes or longer. Dispose of absorbed and neutralized material properly.

#### **SECTION 7 - HANDLING AND STORAGE**

Storage Temperature: Min. 50°F (10°C) Max. 100°F (38°C)

Average Shelf Life: 12 months (when stored in original, unopened, sealed containers).

Special Sensitivity: Reacts with moisture to produce carbon dioxide gas.

<u>Precautions to be Taken in Handling and Storage:</u> Do not store product containers uncovered outdoors. Do not reseal containers unless it is certain that no moisture contamination has occurred. Do not breathe vapors or allow skin contact.

#### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: OSHA-PEL: 4,4'-Diphenylmethane diisocyanate; Ceiling = 0.02 ppm

ACGIH-TLV: 4,4'-Diphenylmethane diisocyanate; TWA = 0.005 ppm

HMIS Hazard Code: Health 2

Flammability 1

Reactivity

PPE B (Personal Protective Equipment) (B= safety glasses and gloves)

Exposure Guidelines: Medical supervision of employees who come into contact with respiratory sensitizers is recommended. Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases or recurrent skin eczema or sensitization should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

Respiratory Protection: Due to the low vapor pressure of this material, the PEL is not likely to be exceeded under normal conditions. If the material is heated or spilled in a confined area, respiratory protection should be worn. An approved air purifying respirator equipped with an organic vapor cartridge and a HEPA (P100) particulate filter may be used when an appropriate cartridge change-out schedule has been developed in accordance with the OSHA respiratory protection standard (29 CFR 1910.134). Where concentrations exceed the level for which an air-purifying respirator is effective, use a positive pressure, supplied air respirator.

Eye Protection: Safety glasses with side shields or goggles.

<sup>\*</sup>indicates a chronic hazard

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Sealed Air Corporation. The data on this sheet relates to the specific material designated herein. Sealed Air Corporation assumes no legal responsibility for use or reliance upon these data.

Protective Packaging Division 10 Old Sherman Tumpike Dambury, CT 06810 203-791-3500 Fax: 203-791-3618 QUICK-A Page 4 of 6 Issued 8/2004

#### SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (continued)

Protective Clothing: Chemical resistant butyl rubber, nitrile rubber, neoprene, or other suitable protective gloves.

<u>Ventilation</u>: Use local exhaust ventilation if necessary to maintain levels below the PEL. For guidance on engineering controls refer to the ACGIH publication "Industrial Ventilation."

Other: Eyewash station, safety shower, and deactivating solution (see Section 6) should be available. Refer to the "Instapak Quick® User's Guide" before handling Instapak® chemicals.

#### **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Liquid

Boiling Point: 406°F (208°C)

Color: Dark brown

Vapor Pressure: < 10<sup>-5</sup> mm Hg at 25°C (for Polymeric MDI)

Odor: Slightly aromatic (musty)

Specific Gravity: 1.24 at 25°C

<u>Vapor Density (Air = 1):</u> 8.5 Molecular Weight: Approx. 350 Bulk Density: 10.3 lbs/gal % Volatile by Volume: Nil

Melting Point: Not established.

Solubility in Water: Not soluble. Reacts slowly to liberate CO2 gas.

#### SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable under normal conditions. Avoid temperatures above 110°F (43°C) or below 40°F (4°C).

<u>Polymerization</u>: May occur at elevated temperatures in the presence of moisture, alkalies, tertiary amines and metal compounds.

Conditions to Avoid: Contact with moisture and other materials that contain active hydrogen.

<u>Incompatible Materials:</u> Water, amines, strong bases and alcohols. The reaction with water is slow at temperatures less than 120°F (49°C) but is accelerated at higher temperatures.

<u>Hazardous Decomposition Products:</u> Highly unlikely under normal industrial use. Exposure to fire or extreme heat may generate oxides of carbon, oxides of nitrogen, and traces of hydrogen cyanide.

#### **SECTION 11 - TOXICOLOGICAL INFORMATION**

Polymeric MDI:

LD<sub>50</sub> Oral:

>10,000 mg/kg (rat)

LD<sub>50</sub> Dermal:

>5,000 mg/kg (rabbit)

LC<sub>50</sub> Inhalation:

>2,240 mg/m<sup>3</sup>/1 hour (rat) for an aerosol of monomeric MDI

370-490 mg/m<sup>3</sup>/4 hour (rat) for polymeric MDI

<u>Primary Route(s) of Exposure:</u> Skin contact from liquid. Inhalation. However, due to the low vapor pressure, overexposure is not expected under normal conditions unless material is heated or used in a poorly ventilated area.

<u>Inhalation:</u> This product is a respiratory irritant and potential respiratory sensitizer. Inhalation of vapor or aerosol at levels above the occupational exposure limit can cause respiratory sensitization. Symptoms may include irritation to the eyes, nose, throat, and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing. The onset of respiratory symptoms may be delayed for several hours after exposure.

#### # Sealed Air

Protective Packaging Division 10 Old Sherman Turnpike Danbury, CT 06810 203-791-3500 Fax: 203-791-3618

#### SECTION 11 - TOXICOLOGICAL INFORMATION (continued)

A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons. Sensitized persons should be removed from any further exposure. Persons with asthma-type conditions or other chronic respiratory diseases should be excluded from working with MDI. Like many other non-specific asthmatic responses, there are reports that a sensitized individual can experience symptoms upon exposure to dust, cold air or other irritants. In a single evaluation of 5 men occupationally exposed to MDI and hydrocarbon solvent vapors under conditions where adequate ventilation or other safety precautions were <u>not</u> used, neuropsychologic findings were attributed to MDI.

Skin Contact: May cause irritation or rash. Can cause skin discoloration. Repeated and/or prolonged contact may result in skin sensitization. Individuals who have skin sensitization can develop symptoms (e.g., reddening swelling, rash) from contact with liquid or vapors. There is limited evidence from laboratory tests that skin contact may play a role in respiratory sensitization. This data reinforces the need to prevent direct skin contact and the importance of protective gloves.

Eye Contact: Liquid can cause eye irritation, tearing, reddening and swelling. Permanent corneal injury is unlikely. Exposure to MDI vapors in excess of 0.02 ppm may cause irritation.

Ingestion: Ingestion is unlikely. Based on the acute oral  $LD_{50}$ , this product is considered practically non-toxic by ingestion. Ingestion can cause irritation and corrosive action in the mouth, stomach and digestive tract.

Chronic Effects: A study was conducted where groups of rats were exposed for 6 hours/day, 5 days/week for a lifetime to atmospheres of respirable polymeric MDI aerosol either at concentrations of 0, 0.2, 1, or 6 mg/m³ (which corresponds to MDI levels equal to the OSHA-PEL, 5 times the OSHA-PEL and 30 times the OSHA-PEL). No adverse effects were observed at 0.2 mg/m³ concentrations. At the 1 mg/m³ concentration, minimal nasal and lung irritant effects were seen. Only at the top concentration (6 mg/m³) was there an increased incidence of benign tumor of the lung (adenoma) and one malignant tumor (adenocarcinoma). MDI administration to rats in this study did not change the distribution and incidence of tumors from those seen in control animals. The increased incidence of lung tumors is associated with prolonged respiratory irritation and the concurrent accumulation of yellow material in the lung. In the absence of prolonged exposure to high concentrations leading to chronic irritation and lung damage, it is highly unlikely that tumor formation will occur.

<u>Carcinogenicity</u>: The ingredients of this product (>0.1%) are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA and not listed as carcinogens by NTP.

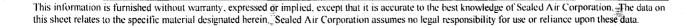
Mutagenicity: There is no substantial evidence of mutagenic potential.

Reproductive Effects: No adverse reproductive effects are anticipated.

<u>Teratogenicity and Fetotoxicity:</u> No birth defects were seen in two independent animal (rat) studies. Fetotoxicity was observed at doses that were extremely toxic (including lethal) to the mother. The dose that produced this effect (1.2 ppm) is 60 times higher than the OSHA-PEL. Fetotoxicity was not observed at doses that were not maternally toxic. The doses used in these studies were maximal, respirable concentrations well in excess of the defined occupational exposure limits.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

<u>Environmental Fate and Distribution:</u> It is unlikely that significant environmental exposure in the air or water will arise, based on consideration of the production and use of the substance.



## SECTION 12 - ECOLOGICAL INFORMATION (continued)

Persistence and Degradation: Immiscible with water, but will react with water to produce carbon dioxide, and inert and non-biodegradable solids.

Aquatic Toxicity:

LCso:

>1000 mg/l (Zebra fish) At the highest level of 1000 mg/l, there were no deaths.

 $EC_{50}$  (24 hour): >1000 mg/l (Daphnea magna)

EC<sub>50</sub>:

>100 mg/1 (E. Coli)

#### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Incinerate or dispose of in accordance with existing federal, state and local environmental control regulations. This material is not a hazardous waste under RCRA 40 CFR 261 when disposed of in its purchased form. Small quantities should be treated with deactivation solution outlined in Section 6. Refer to the "Instapak Quick® User's Guide" for additional information concerning disposal of wastes and empty containers. Chemical waste, regardless of quantity, should never be poured into drains, sewers or waterways.

#### **SECTION 14 - TRANSPORT INFORMATION**

<u>DOT:</u> Single containers less than 5,000 pounds are not regulated.

IMO: Not regulated.

IATA/ICAO Class: Not regulated.

Reportable Quantity (RQ): 5,000 lbs. for Methylene diphenyl diisocyanate (4,4'-MDI), CAS #101-68-8 (≈ 45% of product).

#### **SECTION 15 - REGULATORY INFORMATION**

TSCA Status: All ingredients are listed or are not required to be listed.

CERCLA Status: Discarded product is not a hazardous waste under RCRA, 40 CFR 261, when disposed of in its purchased form.

SARA 302 Extremely Hazardous Substances: None

SARA 311/312 Hazard Categories:

Immediate (acute) Health Hazard

Delayed (chronic) Health Hazard

SARA 313 Listed Ingredients: This product contains the following chemicals subject to reporting requirements: 100% Diisocyanate compounds (Category Code N120).

This product contains a trace (ppm) amount of monochlorobenzene (CAS# 108-90-7) as an impurity.

## **SECTION 16 - OTHER INFORMATION**

Other Regulations/Legislation which apply to this product: Massachusetts Right-to-Know, New Jersey Right-to-Know, Pennsylvania Right-to-Know [Methylene bisphenyl isocyanate (4,4'-MDI), CAS#101-68-8].

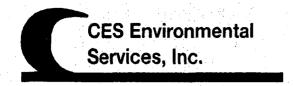
Section(s) Revised:

Section 15 - Regulatory Information

Printed on recycled paper (50% secondary material, minimum 10% post consumer) using vegetable based inks.

M-48 Rev. 8/2004

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Sealed Air Corporation. The data on this sheet relates to the specific material designated herein. Sealed Air Corporation assumes no legal responsibility for use or reliance upon these data.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

pH: na

# Waste Pre-Acceptance/Approval Letter

Date 9/26/2007

Dear Melissa Geigley

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2371

Generator: National Oilwell Varco

Address: 12950 W. Little York Houston, TX 77041

Waste Information

Name of Waste: Foam component Part B (Polyol with Amine)

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Out of Date/Off Spec unused material

Color: amber/brown Odor: 1.02

**Physical State:** 

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# CES Environmental Services, Inc.

6/2

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gen					
Company:		Varco (West Little York	)		
Address:	12950 W. Little				
City, State, Zip:	Houston, TX 77	041			
Contact:	Ed Joye		Title:	EHS Mgr.	
Phone No:	713-856-4145		Fax No:	713-435-2093	
24/hr Phone:	CES-713-676-14	60			
U.S. EPA I.D. No:	TXT490014180			1 A	
State I.D.	32145		SIC Code:	NH	
SECTION 2: Billi	ng Information – 🔀	Same as Above			
Company:			<u> </u>		
Address:		<del></del>		<u> </u>	
City, State, Zip:			· · · · · · · · · · · · · · · · · · ·		
Contact:		Title:			
Phone No:		Fax N	io:		
SECTION 3: Gene	ral Description of t	he Waste	A to the little		
		<del></del>			
		B-(Polvol with Amine) ting Waste: Out of Dat	e/Off Spec-Unused M	[ateria]	
Physical State:	⊠ Liquid	Sludge	Powder		
	Solid	Filter Cake	Combination		
		riner cane	Combination		
Color: Amber/Brow	<u>n</u>	Odor: slight Amine			
Specific Gravity (w	ater=1): <u>1.02</u>	Density: 9 lbs/gal			
Layers:	Single-phase	Multi-pha	se		
Container Type:	⊠ Drum	☐ Tote	☐ Truck	Other (explain)	
Container Size:	55 gal				
		<del></del>	-		
	<b>.</b>		_	_	
Frequency:	☐ Weekly		Quarterly	⊠ Yearly	
Number of Units (co	ntainers): 2	Other:			
Texas State Waste (	Code No: N	A-Recyclable Material			
Description DOTES			DOT D. LA LIM		-
Proper U.S. DOT Si	upping Name:	Non-RCRA; Not	1-DOT Regulated Ma	tenal	
Class: NA	UN/N	IA: NA	PG: NA	RQ: NA	
			_		
Flash Point	pH	Reactive Sulfides	Reactive Cy	anides Solids	-
<u>-150</u>	<u>NA</u>	<u>O</u> mg/l	<u>O</u> mg/l	<u>&lt;1</u> %	
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/l	0mg/l	Omg/l	Omg/I	

## SECTION 4: Physical and Chemical Data

The wast	COMPONENTS TABLE e consists of the following materials	Concentration Ranges are acceptable	Units or %
Polyol with Amine		100	%

#### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level D

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. **MSDS** 

#### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	Х
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	$\bar{\mathbf{x}}$
Ignitability:	$\bar{\mathbf{x}}$

Authorized Signature:

#### **SECTION 9: Generator's Certification**

The information contained herein is based on 🖂 generator knowledge and/or 🗌 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document. Date: 7/17/07

•	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: Lobben Chyd	Additional Information: 25 0/Drussus
Date: 9-25-07 Approved Rejected	Trans 700/ Hr. Blend with
Approval Number: 2371	black oil. Plane check with mat
	for direction

REC

S.q

(713) 937-5022

Geigley, Melissa

JUL 17 07 03:25p

SE	CTION 10: Waste Receipt Classification Under 4	10 CFR 437			
Is	this material a wastewater or wastewater sludge?	YES	⊠ NO		lasta de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición del composición de la composición de la composición del composición de la composición de la composición de la composición de la composición de la composición del composición de la composición de la composición del composición del composición del composición del composición del composición del composición del composición del composición del compos
If	Yes', complete this section.				
PL	EASE CHECK THE APPROPRIATE BOX. IF NO	APPROPI	RIATE CAT	EGORY, GO TO TH	E NEXT PAGE.
Meta	ls Subcategory: Subpart A				
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions Vibratory deburring wastewater Alkaline and acid solutions used to clean metal part			phosphating operation	<b>S</b>
Oils S	Subcategory: Subpart B	J of Japan			
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning opera Wastewater from oil bearing paint washes				
Urgur	nics Subcategory: Subpart C				
	Landfill leachate Contaminated groundwater clean-up from non-petro Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulate Wastewater from organic chemical product operation Tank clean-out from organic, non-petroleum sources	ion ns	es		

(1)	If the waste contains of	oil and grease at or	in excess of 100 mg/L, the waste should	be classified in the oils sul	ocategory.
(2)			than 100 mg/L, and has any of the polluta uld be classified in the metals subcategor		trations in excess
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L				
(3)			than $100 \text{ mg/L}$ , and does not have concerve, the waste should be classified in the o		mium, copper, or
	☐ Metals Subca	атедогу			
	Oils Subcate	gory		•	
	Organics Sub	category			

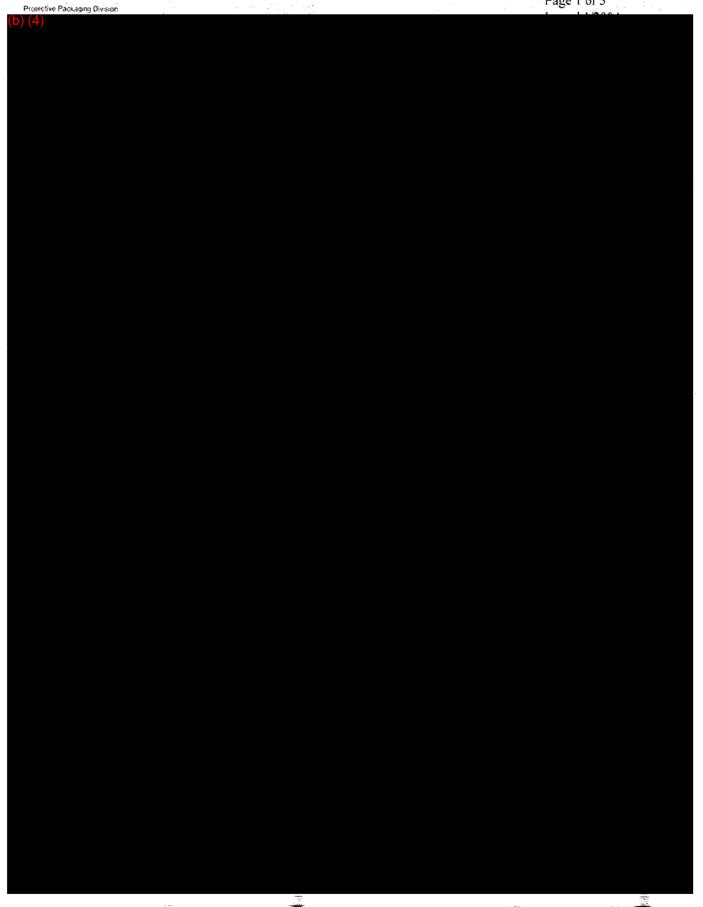
## **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



# MATERIAL SAFETY DATA SHEET

QUICK-B Page 1 of 5



Protective Packaging Division

-

**Sealed Air** 

QUICK-B Page 3 of 5 Issued 1/2004

Protective Packaging Division to Old Sherman Turniske

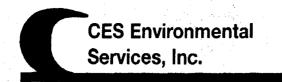


Protective Packaging Division

QUICK-B Page 4 of 5 Issued 1/2004



Protective Packaging Division 16 Old Sherman Turnnike QUICK-B Page 5 of 5 Issued 1/2004



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 9/25/2007

Dear Mark Voth

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2372

Generator: Exxon Mobile Pipeline @ Kinder Morgan Galena Park

**Address:** 906 Clinton Drive

Galena Park, TX

# Waste Information

Name of Waste: Gassy water TCEQ Waste Code #: Recycle

Container Type:

**Detailed Description of Process Generating Waste:** 

Aviation gasoline contaminated with water

Color: varies

**Odor:** gassy

pH: neutral

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

713 676 1676

P.02





4904 Griggs Road Phone: (713) 676-1460 House, TX 77021

(713) 676-1460 Fax: (713) 676-1676 http://www.cesenviroamental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 **ISWR No: 30900** 

SECTION 1: Gen	erator Information					
Compuny:		eline @ Kinder Morgan				
Address:	906 Clinton Drive					_
City, State, Zip:	Galona Park, TX	77547				_
Contact:	Mark Voth		Title:		<u> </u>	_
Phone No:	972-579-3854		Fax No:	972-579-	3831	
24/hr Phone:	817-475-5585					_
U.S. EPA LD. No:	TXCESQG				· '(	
State I.D.	CESQG		SIC Code:	NA		_ '
Company:	exxon Mobile Pipe	Ine		:		
Address:	1201 E. Airport Fre	eway				_ :
City, State, Zip:	Irving, TX 75062					_
Contact:	Mark Voth	Title:				
Phone No:	972-579-3854	Fax No	972-579-383	1		
	ral Description of the	ne Waste				_
Name of Waste: Garage Detailed Description		ting Waste: Aviation gas	oline conteminated	with water		
Physical State:	∠ Liquid     Solld     Soll	☐ Sludge ☐ Filter Cake	☐ Powder ☐ Combination	on		
Color: varies		Odor: gassy	i	•		
Specific Gravity (w	ater=1); <u>.9-1</u>	Density: <u>8.3-8.34</u>		, h		.*
Layers:	Single-phase	Multi-phese	1			
Container Type: Container Size:	Drum	Tote	Truck <u>5000 gal</u>		Other (explain)	•
Frequency: Number of Units (c Texas State Waste (		Monthly Other: ecyclable	Quarterly	×	Yearly	
Proper U.S. DOT S	hipping Name:	#716.00 page \$ 3				-
Class: 3	UNA	Plannabi	<u>Skigisko jr</u> PG: 7	1.0.S.	RQ: AVA	
	Olar	(A: <u>UN) 1993</u>	10	<u></u>	RQ: NA_	
Flash Point	pH	Reactive Sulfides	Reactive C	yauldes	Solida	
>140	neutral	=20me/ Ma	-520mg/t-		0%	- 1
Ou& Gresse	TOC	Zinc	Copper		ickel	
<1000mg/l	>100mg/l	Omg/I	Omg/I	0	ma/l	- (

CES Environmental Service

713 676 1676

P.03

# SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %	
Aviation Gasoline	0-4		
Water	96-100	%	

#### SECTION 5: Salety Related Data

If the handling of this waste requires the use of special protective equipment, please explain. Standard

# SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None

#### SECTION 7: Incompatibilities

Please list all incompatibilities (if any): None known

# SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below. WAS NOT PERFORMED based upon the following generator knowledge:

• .	
TCLP Metala:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

# SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	end	Date: 9-25-07
Printed Name/Title: Vicki Floyd,	3 3	Exxan Mobil Pipeline

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o
Compliance Officer Labour 2/Laya	Process Facility Information: \$0.35/qel \$69/hr
Date: 9-25-07 Approved Rejected	Remove water + mix w/ lightendo
Approval Number: 2372	EXTIGICATION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O

				,	
P-25	-2007 TUE 03:16 PM IRVING		NO.	9725793831 713 676 1676	P. 04
Ser	SECTION 10: Waste Receipt Classification Under 40 CFR	•			
.*	Is this material a wastewater or wastewater sludge?   YES	⊠ NO			
	If 'Yes', complete this section.				
	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPR	OPRIATE C	CATE	GORY, GO TO THE NEXT PAG	<b>E.</b> .

# Metals Subcategory: Subpart A

	Spent electroplating baths and/or sludges		
	Metal finishing rime water and sludges		
	Chromate wastes		1
	Air pollution cuntrol blow down water and sludges	•	
	Spent anodizing solutions	•	,
	Incincration wastewaters		
	Waste liquid morcury		
	Cyanido-containing wastes greater than 136 mg/l	. '	: 1
	Waste acids and bases with or without motals		S. 21.
	Cleaning, rinsing, and surface preparation solutions fi	rom electroplating or	phosphating operations
	Vibratory deburring wastewater	•	• • • • • • •
П	Alkaline and acid solutions used to clean metal parts	or equipment	•

# Oils Subcategory: Subpert B

	••. 'a -u/-
	Usod oils
	Oil-water emulsions or mixtures
	Lubricants
	Coolants
	Contaminated groundwater clean-up from petroleum sources
	Used petroleum products
	Oil spill clean-up
靣	Bilgo water
	Rinae/wash waters from potroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation waste
	Tank clean-out from petroleum or olly sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
$\equiv$	Wasterman from all bearing point weeker

# Organics Subcategory: Subpart C

Landfill leachate
Contaminated groundwater clean-up from non-perroleum source
Solvent-bearing wastes
Off-specification organic product
Still bottoms
Byproduct waste glycol
Wastewater from paint washes
Wastewater from adhesives and/or epoxies formulation
Wastewater from organic chemical product operations
Tank clean-out from organic, non-petroleum sources

P.05

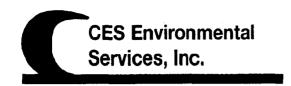
(1)	If the	waste contains oil and grease at	or in excess of 100 mg/L, the waste should be	classified in the oils subcat	tegory.
(2)	If the of the	waste contains oil and grease les values listed below, the wasto 5	ss than 100 mg/L, and has any of the pollutants hould be classified in the memis aubcategory.	listed below in concentrat	ions in excess
	Chron Coppe	ium: 0.2 mg/L alum: 8.9 mg/L or: 4.9 mg/L l: 37.5 mg/L			:
(3)			ss than 100 mg/L, and does not have concentrate those, the waste should be classified in the orga		ım, copper, or
		Metals Subcategory		·	
		Oils Subcategory			

# SECTION II: Additional Instructions

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

CES # 2373



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 9/28/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2373

Producer: CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

#### Material / Product Information

Name of Material / Product Viscosity Improver Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Viscosity Improver

Color: Yellow

Odor: Ester-like

pH: na

**Physical State:** 

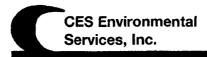
Incompatibilities: Strong Oxidizing Agents Safety Related Data/Special Handling:

see MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Inform	nation				
Company:	CES Environme	ntal Service	s, Inc.			
Address :	4904 Griggs Rd	4904 Grigg	js Road			
City, State, Zip:	Houston TX 770	)21				
Contact :	Matt Bowman			Title	e :	
Phone No:	(713) 676-1460			Fax	:	
24 / HR Phone :						
U.S EPA I.D No:	na					
State I.D :	na			SIC	Code na	
SECTION 2: Billing	Information					
Company:	CES Environme	ntal Service	 es, Inc.			
Address :	4904 Griggs Rd					
City, State, Zip:	Houston TX 770		<u> </u>			
Contact:				Title	e:	
Phone No:	(713) 676-1460			Fax		
SECTION 3: General						
Name of Mateiral	/ Product : Visco	osity Improv	er			
Detailed Descrip	tion of the Proce	ess Genera	ting or Produc	ing the Material / I	Product:	
Viscosity Improve	r					
			. Studao	- Poudor		
Viscosity Improve Physical State:	<b>✓</b> Liquid		Sludge	Powder		
			Sludge  Filter Cake	Powder		
	<b>✓</b> Liquid	Y		(2000)		Ester-like
Physical State :	✓ Liquid  Solid		Filter Cake	iii Combir	nation	Ester-like 7.573 lbs / gal
Physical State : Color :	✓ Liquid  Solid		Filter Cake	Combir Odor: Density:	nation	
Physical State :  Color :  Specific Gravity	✓ Liquid  Solid  (Water=1):  ✓ Single-F	Phas	Filter Cake /ellow	Odor: Density:	nation	
Physical State :  Color :  Specific Gravity ( Layers :	✓ Liquid  Solid  (Water=1):  ✓ Single-F	(Phas	Filter Cake /ellow 0.908 Multi-Phas	Odor: Density:	nation	
Physical State :  Color :  Specific Gravity ( Layers :  Container Type :	✓ Liquid  Solid  (Water=1): ✓ Single-F	(Phas	Filter Cake /ellow 0.908 Multi-Phas	Odor: Density:	nation	
Physical State :  Color :  Specific Gravity ( Layers :  Container Type :  Container Size :	✓ Liquid  Solid  (Water=1): ✓ Single-F  Drum	Phas  T	Filter Cake /ellow 0.908 Multi-Phas	Odor: Density:  Truck  Ooth	nation	7.573 lbs / gal
Physical State :  Color :  Specific Gravity ( Layers :  Container Type :  Container Size :  Number Of Units	✓ Liquid  Solid  (Water=1): ✓ Single-F  Drum	Phas  T	Filter Cake /ellow 0.908 Multi-Phas	Odor: Density:  Truck  Ooth	nation  7 ner (explain)	7.573 lbs / gal
Physical State :  Color :  Specific Gravity ( Layers :  Container Type :  Container Size :  Number Of Units  Proper U.S. DOT	Liquid Solid  (Water=1): Single-F Drum  :: Shipping Name	Phas  T	Filter Cake /ellow 0.908 Multi-Phas fote	Odor: Density:  Truck  Non-RCRA/Non-PG:	ner (explain) n-DOT Regulated Mate	r.573 lbs / gal
Physical State :  Color : Specific Gravity ( Layers : Container Type : Container Size : Number Of Units Proper U.S. DOT Class :	Liquid Solid  (Water=1): Single-F Drum  :: Shipping Name	Phas  T  C  UN/NA:	Filter Cake /ellow 0.908 Multi-Phas fote	Odor: Density:  Truck  Non-RCRA/Non	nation  ner (explain)  n-DOT Regulated Mate	r.573 lbs / gal
Physical State :  Color : Specific Gravity ( Layers : Container Type : Container Size : Number Of Units Proper U.S. DOT Class :	Liquid Solid  (Water=1): Single-F Drum  :: Shipping Name	Phas  T  UN/NA:  pH	Filter Cake /ellow 0.908 Multi-Phas fote	Odor: Density:  Truck Oth  Non-RCRA/Non  PG:	ner (explain)  n-DOT Regulated Material  Reactive Ganid	Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Priorition   Prior

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Acrylic Copolymer	30-60	%
Neutral Oil	40-70	%
		,
ECTION 5: Safety Related Data		
the handling of this material / product requires the use of special protective	equipment, please explain.	
ee MSDS	, a quipmond, production production	
ECTION 6: Attached Supporting Documents		
ist all documents, notes, data, and/or analysis attached to this form as part o	of the material / product profile.	
SDS		
CTION 7: Incompatibilities	•	
lease list all incompatibilities (if any):		
trong Oxidizing Agents		
ECTION 8: Material Producer's Certification		
he information contained herein is based on 🗹 generator knowledge and/o		
bove and attached description is complete and accurate to the best of my kr eliberate or willful omissions of composition properties exist and that all kn		
sclosed. I certify that the materials tested are representative of all materials		
$\Lambda I \Lambda$		
outhorized Signature :	Date :9/26/2007	
rinted Name / Title: not required /	· · · · · · · · · · · · · · · · · · ·	
DEC LIGE ONLY (DO NOT MORE IN THE ORACE)	O	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Special Pricing / Analytical In	
Compliance Officer: Prabhakar Thangudu Lollan Mangak	Run viscosity index - (Paleyellow).	,000
Date: 9/26/2007 Status: (Approved) Rejected	Recommended Treatment	
Approval Number: 2373	Product must be hea	
Approval Number: 2373	insulated today with stea	

Status: 08/31/2005 Version: 1

VISCOPLEX® 6-850

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# 1. Chemical Product and Company Identification

VISCOPLEX® 6-850

RohMax USA, LP 723 Electronic Drive Horsham, PA 19044-2228

Telephone No. Toll Free No.

215-706-0843 1-888-876-4629

Regulatory Specialist

215-706-5840

Spill, Leak, Fire, **Exposure or Accident CHEMTREC®** 

Outside USA Collect calls accepted

CANUTEC

1-800-424-9300 703-527-3887

613-996-6666 (RohMax Canada, Inc.)

RohMax Additives GmbH Kirschenallee D-64293 Darmstadt

Telephone no.

+49 6151/18-09

Emergency Tel.

+49 6151/18-4342

+33 3 88 73 60 00 (RohMax France)

Product Use: Viscosity index improver

# 2. Composition/Information on Ingredients

This material is classified as hazardous under OSHA regulations.

<u>Ingredients</u> acrylic copolymer

neutral oil

NJTSR # RX000394

CAS Req. No.

Weight % 30 - 60

trade secret 64742-55-8

40 - 70

3. Hazards Identification

**Emergency Overview** 

Color:

vellow

Appearance:

viscous

See Section 8, Exposure Controls/Personal Protection

Odor:

ester-like

MAY CAUSE EYE AND SKIN IRRITATION

**Primary Routes of Exposure** 

Skin contact Eye contact

**Potential Health Effects** 

Eye contact

May cause eye irritation.

Status: 08/31/2005 Version: 1

VISCOPLEX® 6-850

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Page 2 of 7

#### Skin contact

May cause skin irritation.

#### **Potential Environmental Effects**

See SECTION 12, Ecological Information

#### 4. First Aid Measures

#### First Aid Procedures

#### Inhalation

Move subject to fresh air.

#### Eye contact

Flush eyes with plenty of water for at least 15 minutes. Consult a physician if irritation persists.

#### Skin contact

Wash off immediately with soap and water. Remove contaminated clothing and shoes. Obtain medical attention if irritation develops. Wash clothing before reuse.

#### Ingestion

Get immediate medical attention. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.

#### **Note to Physician**

Product is soluble in medical white oil (BP) and/or paraffin oil.

# 5. Fire-Fighting Measures

Flash point > 120 °C (ASTM D 3278)

> 248 °F (ASTM D 3278)

Ignition temperaturenot availableSpontaneous ignitionnot availableLower explosion limitnot available

Upper explosion limit not available

OSHA Flammability Classification none

#### **Unusual Hazards**

Combustion generates toxic fumes of the following: carbon oxides

#### **Extinguishing Media**

Use the following extinguishing media when fighting fires involving this material:

water spray (fog), CO2, dry chemicals, and/or extinguishing agents appropriate for the surrounding fire Fire Fighting Procedures

Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent). Wear full protective gear.

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#### 6. Accidental Release Measures

#### **Personal Protection**

Wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator. Wear compatible, chemically resistant gloves. Wear protective clothing, including splash proof goggles and rubber overshoes. Take off immediately all contaminated clothing.

For further Information see SECTION 8, Exposure Controls/Personal Protection.

#### **Procedures**

Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

#### 7. Handling and Storage

#### Handling

Keep container tightly closed. Wash thoroughly after handling. Avoid formation of oil mist. Ensure the area is well ventilated.

#### Storage

Keep container tightly closed and store in a well ventilated area. Do not store at temperatures above 100 °C / 212 °F. Low temperature storage can cause handling problems. Viscosity of material will increase.

#### 8. Exposure Controls/Personal Protection

#### **Exposure Limit Information**

#### OIL MIST, MINERAL - see Remark/s

Occupational Exposure Values		Remark(s):
ACGIH TLV-TWA	5 mg/m3	(mist)
ACGIH TLV-STEL	10 mg/m3	(mist)
OSHA PEL-TWA	5 mg/m3	CAS No. 8012-95-1
OSHA PEL-STEL		not established
OEL-TWA (Alberta)	5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Alberta)	10 mg/m3	CAS No. 8012-95-1
OEL-TWA (British Columbia)	290 mg/m3	CAS No. 8052-41-3
OEL-STEL (British Columbia)	580 mg/m3	CAS No. 8052-41-3
OEL-TWA (Ontario)	5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Ontario)	10 mg/m3	CAS No. 8012-95-1
OEL-TWA (Quebec)	5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Quebec)	10 mg/m3	CAS No. 8012-95-1
OEL-TWA (Mexico)	5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Mexico)	10 mg/m3	CAS No. 8012-95-1

Status: 08/31/2005 Version : 1

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#### **Engineering Controls (Ventilation)**

None required under normal operating conditions.

#### Personal Protective Equipment (PPE)

#### Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Where misting may occur, wear a MSHA/NIOSH approved (or equivalent) half mask, dust/mist air purifying respirator.

#### **Eye Protection**

Use safety glasses (ANSI Z87.1 or approved equivalent).

#### **Skin Protection**

Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

#### **Hand Protection**

Odor

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection:

nitrile rubber gloves

Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

#### **Other Protective Equipment**

Facilities storing or utilizing this material should be equipped with an eyewash facility.

#### 9. Physical and Chemical Properties

Appearance yellow

Physical state viscous

Flash point > 120 °C (ASTM D 3278)

> 248 °F (ASTM D 3278)

**pH-value** not applicable

Viscosity (kinematic) 1,175 mm2/s at 100 °C / 212 °F (ASTM D445)

ester-like

Specific gravity (water = 1) 0.908 g/cm3 at 15 °C / 59 °F Den grby = 7.573 (6/3) Vapor density (air = 1) > 1 at 20 °C / 68 °F

Vapor pressure < 1 hPa (= mbar) at 20 °C / 68 °F

Pourpoint not available
Boiling Temperature not available
Solubility in water virtually insoluble
Evaporation rate not available
Odor threshold not available

**Further information** none See Section 5, Fire Fighting Measures

Status: 08/31/2005 Version : 1

**VISCOPLEX® 6-850** 

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#### 10. Stability and Reactivity

#### Stability

No decomposition when used as directed.

#### **Conditions To Avoid**

This material is considered stable under specified conditions of storage, shipment and/or use.

#### Incompatibility With Other Materials

Avoid contact with strong oxidizing agents.

#### **Hazardous Decomposition Products**

methacrylates (in case of thermal decomposition). When overheated: oil vapours

#### **Hazardous Polymerization**

Product will not undergo polymerization.

#### 11. Toxicological Information

#### **Acute Oral Toxicity**

LD50 rat

(analogy)

> 2,000 mg/kg

#### **Acute Dermal Toxicity**

LD50 rabbit (analogy)

> 2,000 mg/kg

#### Irritant Effect on the Skin

If contact with skin is prolonged and/or frequent, irritations cannot be excluded. The product has a degreasing effect on skin.

#### Irritant Effect on the Eyes

Contact with the eyes may cause irritation.

#### **Further Information on Toxicology**

There are no toxicological data available for the product as such.

Avoid contact with the skin and eyes and inhalation of the product vapours.

#### 12. Ecological Information

Information on elimination (persistence and degradability)

#### **Ecotoxicological effect**

#### **Further Information on Ecology**

Do not allow to enter soil, waterways or waste water

Status: 08/31/2005 Version: 1

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# 13. Disposal Considerations

#### **Procedures**

Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

## 14. Transport Information

#### **Further information**

Not subject to the regulations on dangerous goods.

# 15. Regulatory Information

#### **INVENTORY INFORMATION**

EC EINECS	listed
USA TSCA	listed
Canada DSL	listed
Australia AICS	listed
Japan MiTi	listed
South Korea ECL	listed
Philippines PICCS	listed
China	listed

#### US FEDERAL REGULATORY INFORMATION

Component / CASRN TPQ [	bs] CERCLAF (40CFR3	RQ [bs] SARA 302 02.4) List of EHS	2 SARA 313 (40CFR372)	TSCA 12b
-------------------------	------------------------	---------------------------------------	--------------------------	----------

NONE

#### **COMPONENT CLASSIFICATION UNDER CLEAN AIR ACT SECTION 112**

Component / CASRN	Weight %	HAP	EHAP

NONE

#### PRODUCT CLASSIFICATION UNDER SECTION 311/312 OF SARA (40CFR370)

ACUTE,

#### **US STATE REGULATORY INFORMATION**

Component / CASRN	•	New Jersey RTK	Pennsylvania RTK	Massachusetts RTK	California Proposition 65 Cancer	California Proposition 65 Reproductive
acrylic copolymer		NO	NO	NO	NO	NO
neutral oil / 64741-88-4		NO	NO	NO	NO	NO
neutral oil / 64741-89-5		NO	NO	YES	NO	NO
neutral oil / 64742-55-8		NO	NO	YES	NO	NO

Status: 08/31/2005 Version : 1

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#### **CANADIAN REGULATION**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains all information required by the Controlled Products Regulations.

This is a controlled product.

WHMIS: D2B

Component / CASRN

**NPRI** 

NONE

#### 16. Other Information

	Health	Flammability	Reactivity
HMIS-Ratings	1	1	0
NFPA-Ratings	1	1 .	0
	HMIS Hazard Ratings	NFPA Hazard Ratings	
	4 = severe 3 = serious	4 = extreme 3 = high	
	2 = moderate 1 = slight	2 = moderate 1 = slight	
.•	0 = minimal * = chronic health hazard	0 = insignifica N = no NFPA	

This MSDS was prepared in accordance with ANSI Z400.1-1998.

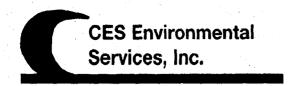
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Places marked by II have been amended from the last version.

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Date of printing: 03/26/2007

3374 Grace Community Church # 2374



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 9/26/2007

Dear Elaine Stewart

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2374

Generator: Grace Community Church

Address: 14505 Gulf Freeway

Houston, TX 77289

## Waste Information

Name of Waste: Elevator shaft fluids

TCEO Waste Code #: Recycle

Container Type:

**Detailed Description of Process Generating Waste:** 

Removal of oily water from elevator shaft

Color: brown

Odor: oil like

pH: neutral

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





4904 Griggs Road Phone: (713).676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gene	rator Information	*		
Company:	Grace Communit	y Church		
Address:	14505 Gulf Freev			
City, State, Zip:	Houston, TX 776		<del></del>	
Contact:	Elaine Stewart		Title:	Contact
Phone No:	713-363-2500		Fax No:	713-363-2571
24/hr Phone:	CES-713-676-14	60		110,000
U.S. EPA LD. No:	NA-Municipal			
State J.D.	NA-Municipal		SIC Code:	$\lambda \lambda$
			- 010 0000	
SECTION 2: Billin	a Yaform etion - 🔘	Same as Ahovo		
Company:	Thyssen Krupp Elev	vator		
Address:	14820 Tombali Parl			
City, State, Zip:	Houston, TX 7704			
Contact:	Ron Tamborello	Title:	Manager	
Phone No:	713-849-2191	Fax No:	713-896-4660	
ritone 110:	113-043-2191	PHX (NO:	713-890-4000	
SECTION 3: Gene	ral Description of I	ic Waste		
Name of Waste: Ele				
Detailed Description	of Process Genera	ting Waste: Removal of oil	v water from elev	/Rior shart
Mr	ISS 11 tours			
Physical State:	🔯 Liquid	Sludge	Powder	
	Solid Solid	Filter Cake	Combination	
		· _		
Color: <u>brown</u>		Odor: <u>oil like</u>		
Specific Gravity (w	iter=1): <u>.95-1.3</u>	Density: 8-10 lbs/gal		
	-			
Layers:	Single-phase	Mulli-phase		·
red eta:	- And Sec-Islands	<b>63</b> 11121111 <b>3</b>		
	П <b>в</b> .	[] make [5	7 T	[7] Other (austrie)
Container Type:	_ Drum	☐ Tote ≥	-	Other (explain)
Container Size:		-	<u>3000 gal</u>	
P	Mr. alele	Monthly	Quarterly	⊠ Yearly
Frequency:	Weekly		Quarterly	
Number of Units (co	outainers): 1	Other:		And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
Texas State Waste (	Code No: N	A-Recyclable Material		
D IT 6 DOT 61	inning None	Non-RCRA; Non-DO	T' Remileted Me	Moria
Proper U.S. DOT SI	obbitt vame:	NoiPRCRA, Noil-Bi		
Class: NA	UNA	ia: na	PG: NA	RQ: NA
Flash Point	pH	Reactive Sulfides	Reactive C	
>140	neutral	<u>Qrag/l</u>	Orag/I	1-5%
Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/L	>1500mg/l	Omg/l	<u>O</u> mg/I	<u>O</u> mg/I

SEP-26-2007 12:53

CES Environmental Service

#### SECTION 4: Physical and Chemical Data

The world	COMPONENTS TABLE consists of the following:materials	Concentration Ranges are acceptable	Units
Mud and Sand	e contains of the following materials	1-5	%
			+
Oil		60-90	1%
Water		10-40	%
		:	

#### SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain, Level D

#### SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. None-(Chlor-D-Text upon arrival) Based on historical information on this type of waste stream and the method of generation there are no hazardous components suspected

#### SECTION 7: Incompatibilities

Please list all incompatibilities (if any): <u>oxidizers</u>

#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Melais:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corresivity:	X
Ignitability:	X

#### SECTION 9: Generator's Certification

The information contained herein is based on 🖂 generator knowledge and/or 🗌 analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document. Date: 926 07

Printed Name/Title: <u>USS/STOAT FOUNTY</u> NUCC	
CES USE ONLY (DO NOT WRITE IN TIUS SPACE)  Compliance Officer: Robben Fland  Date: 9-26-07 Approved Rejected	Additional Information: 142/00/les min 20000
Approval Number: 23.74	Hours pate 9500 HN HTSC

:	TION 10: Waste Receipt Classification Under 40 CFR		
Is th	is material a wastewater or wastewater sludge?   YES	NO See See See See See See See See See Se	
If 'Y	es', complete this section.		
PLE	ASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRIATE CATEGORY, GO TO THE	E NEXT PAGE.
<u>Metals</u>	Subcategory: Subpart A		
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury		
	Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equ	A TOTAL	.:
<u>Oils Su</u>	bcategory: Subpart B	en en en en en en en en en en en en en e	
	Used oils Dil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum source Used petroleum products Dil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Dif-specification fuels Underground storage remediation waste Fank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	S	
	•		
	Contaminated groundwater clean-up from non-petroleum so Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation	urces	
	Vastewater from organic chemical product operations  Sank clean-out from organic, non-petroleum sources		

(1)	If the	waste contains oil and grease at	or in excess of 100 mg/L, the waste	e should be classified in the oils	subcategory.
(2)		•	s than 100 mg/L, and has any of the nould be classified in the metals su		centrations in exces
	Chror Copp	nium: 0.2 mg/L nium: 8.9 mg/L er: 4.9 mg/L el: 37.5 mg/L			
(3)			s than 100 mg/L, and does not have bove, the waste should be classified		hromium, copper, c
		Metals Subcategory			
		Oils Subcategory			
	П	Organics Subcategory			

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

# **CES Environmental Services, Inc.**

4904 Griggs Rd. Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676

# **Fax Transmittal**

Total Number of Pages (Including cover sheet):	·····································
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From: Gary Brauckman CES Environmental Services, Inc. Mobile: (713) 417-5737	
Notes: Elaine	
Please review a ma	ure Changes
a signal copy ASA	Petury
If you have any gu	vestions Plans
gile me a cell	
Thanks	
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(ES # 237

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 9/26/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2375

Producer: CES Environmental Services, Inc.

**Address:** 4904 Griggs Rd

Houston, TX 77021

#### Material / Product Information

Name of Material / Product Spent Sulfidic Caustic

**Container Type:** 

Barge and rail

#### Detailed Description of Process Generating or Producing the Material / Product:

Primarily generated from extracton of sulfur compounds from light distillates using virgicaustic

Color: Light to dark brown to Odor: Hydrocarbon (mercapt pH: 11.5-13.5

**Physical State:** 

Incompatibilities: see MSDS

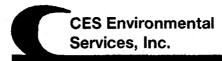
Safety Related Data/Special Handling:

see MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

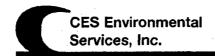
TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	rial Producer Inform	<u>nation</u>	مسلا		
Company:	CES				
Address:			$\mathcal{O}_{\mathcal{V}_{\mathcal{C}}}$		
City, State, Zip:		——————————————————————————————————————			
Contact:	-		Title:		
Phone No:			Fax No:	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
24/hr Phone:	V	<del>//</del>	· · · · · · · · · · · · · · · · · · ·		
U.S. EPA I.D. No:		<u>/                                      </u>	~~~		
State I.D.			SIC Code:		· · · · · · · · · · · · · · · · · · ·
SECTION 2: Billing	Information – 🗀	Same as Above			
Company:					1 2714
Address:					
City, State, Zip:					
Contact:		Title:	`		
Phone No:		Fax N	No:		
· · · · · · · · · · · · · · · · · · ·	0/				
SECTION 3: Gener	al Desemption of th	e Material / Product			
Name of Mark 537	MY CINE	120 00	100	<b>7</b>	
Name of Material /	roduct:	all Jun	SUC 1	Olmostille.	(
Detailed Description	of Process General	ing or Producing the	Material / Product: 4	ELMARIUM	SENCERATED
			X17	OM EXTERC	non of
Physical State: .	Liquid	☐ Sludge	Powder		_
injoical State.	Solid		Combination	SULFUR CON	mound?"
	Solid	Filter Cake	Combination	FUSING VIR	6121
Color: VDUE		)dom		WOING VIP	5110
Color. V PAVV	, ,	Odor:	)	Cousic, #	ta 1
Specific Crevity (wat	···-1\\ DH / 1.	$2_{\text{Density}}$	/mal		
Specific Gravity (was	ter-1): <u>1, - t</u>	Density: los	gai	lesseasts ,	STILLARES
Larrama	Single whom	□ Made also		1	(IDM VI T
Layers:	Single-phase	☐ Multi-pha	ise		CLIMPA D)
~ ~			<b>→</b>	Other (explai	3119
Container Type:	Drum	∐ Tote	Truck	Other (explai	11)
Container Size:				BNG	LOR TRAIL
				Cha	W.4
Frequency:		☐ Monthly	Quarterly	☐ Yearly	•
Number of Units (cor		Other:	_ •	<del></del>	
in a contract of contract (con		<u> </u>			
Duomon II C DOT Chi					
Proper U.S. DOT Shi					
Class:	UN/N.	A: 1/11) 1710U	PG:	RQ:	
		WIN HWY			
Flash Point	pH	N/A	N/A	Solids	
riash I viiit	P <sup>11</sup> ー、つ	13/73	IN/A	l l	
			201	٠/٨	1
Oil&Grease	TOC	Zinc	Copper	Nickel	

## **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or.%
WATER	85% +9	
SODILIN HYDROXIDE	7-1070	
SUDIUM SULFIDE	0-300	
SODIUM CARBONATE	D- Mars 5	00
SODIUM MERCAPTIDE	0-300	
990		

SOUTH MARKATION	0-3%	
<b>39</b>		
SECTION 5: Safety Related Data		
If the handling of this material / product requires the use of special protects	ive equinment nlesse evnlsin	
	ive equipment, picase explain.	
SECTION 6: Attached Supporting Documents		
	of the metarial / musduat prof	Tio.
List all documents, notes, data, and/or analysis attached to this form as part	of the material / product prof	ne.
SECTION 7. Incompatibilities		
SECTION 7: Incompatibilities  Please list all incompatibilities (if any): PCLOS / NO STRO	IF DUDINGO	2
Please list all incompatibilities (if any): PCC 3 PCC	ng oxivitor.	)
CECTION 9. Martial Break and Confidentia		
SECTION 8: Material Producer's Certification		CC 4b 4 4b a ab a a a a a a
The information contained herein is based on $\square$ generator knowledge and/or $\square$ attached description is complete and accurate to the best of my knowledge a	analytical data. I hereby cert and ability to determine that no	o deliberate or willful
omissions of composition properties exist and that all known or suspected haz	ards have been disclosed. I cer	tify that the materials
tested are representative of all materials described by this document.		
Authorized Signature:	Date:	
	Date:	
Authorized Signature:Printed Name/Title:	Date:	
	Date:	
Printed Name/Title:  CES USE ONLY (DO NOT WRITE IN THIS SPACE)		
Printed Name/Title:  CES USE ONLY (DO NOT WRITE IN THIS SPACE)	ilita I a Compation	(J)
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Printed Name/Title:  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Technical Manager:  Date:  Approved Rejected  Approval Number:	cility Information: Cific Gravity wast - PH + Grown	hydroxide top



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Info	rmation							
Company:	CES Environm	nental Servi	ices, Inc						
Address:	4904 Griggs R	d 4904 Gr	iggs Ro	ad					
City, State, Zip:	Houston TX 77	7021							
Contact:	Matt Bowman					Tit	le:		
Phone No:	(713) 676-146	0				Fa	<b>x</b> :		
24 / HR Phone:	·								
U.S EPA I.D No:	na						en en en en en en en en en en en en en e		
State I.D :	na					SIC	C Code na		
SECTION 2: Billing	Information								
Company:	CES Environm	ental Servi	ces, Inc.						
Address :	4904 Griggs R	d 4904 Gr	iggs Roa	ad					
City, State, Zip:	Houston TX 77	7021						,	
Contact :						Tit	le:		
Phone No:	(713) 676-1460	0				Fa	<b>x</b> :		
SECTION 3: Genera				ct					
Name of Mateiral	/ Product : Spe	ent Sulfidic	Caustic						
Detailed Descript	ion of the Prod	cess Gene	rating o	r Produ	ıcing the l	Material /	Product:		
Primarily generate	d from extracto	n of sulfur (	compour	nds fron	n light disti	llates usir	ig virgin caustic		
Physical State :	<b>✓</b> Liquid		₪ SI	udge		Powde	r		
	Solid		Fil	ter Cake	e l	Combi	nation		
Color:	ht	to dark bro	wn to gr	een or i	red liq <b>Odo</b>	r:	Hydro	carbon (n	nercaptan), rotten egg
Specific Gravity (	Water=1) :		1.04-1.2		Den	sity :		8.7-1	D lbs / gal
Layers :	<b>✓</b> Single-	Phas	MI	ulti-Pha	ase				
Container Type :	Drum		Tote	V	Truck	<b>⊘</b> Otl	her (explain)	E	Barge and rail
Container Size :									
Number Of Units									
Number Of Onits									
Proper U.S. DOT	Shipping Name	e:				Corros	ive liquids, n.o.s.		
Class : 8		UN/NA:_	8			PG :_	8		RQ:8
Flash Point		рH		· •		<u> </u>			Solids
na		11.5-13.5						ŀ	0 %
Oil and Great		TOC na	ma/l		Zinc	ma/l	Copper		Nickel
na	mg/l	🤅 na	mg/l		na	mg/l	na	mg/l	na mg/l

## SECTION 4: Physical and Chemical Data

COMPONENTS TABLE  The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	85	%
Sodium hydroxide	2-10	%
Sodium sulfide	0-3	.%
Sodium carbonate	0-5	%
Sodium mercaptide	. 0-3	%

Sodium carbonate		.%
To the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	0-5	%
Sodium mercaptide	. 0-3	%
SECTION 5: Safety Related Data		
If the handling of this material / product requires the use of special prote	ective equipment, please expla	in.
see MSDS		
SECTION 6: Attached Supporting Documents		
List all documents, notes, data, and/or analysis attached to this form as	part of the material / product p	rofile.
MSDS	•	
	•	
SECTION 7: Incompatibilities	•	
Please list all incompatibilities (if any):		
ee MSDS		
SECTION 8: Material Producer's Certification		
The information contained herein is based on 🗹 🛚 generator knowledge		arehy cerity that th
shove and attached description is complete and eccurate to the best of		
		termine that no
deliberate or willful omissions of composition properties exist and that a	all known or suspected hazard	termine that no s have been
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## **Material Safety Data Sheet**

#### SULFIDIC CAUSTIC SOLUTION

SECTION	2 - Composition, Information on Ingredients
SECTION	3 - Hazards Identification
SECTION	4 - First Aid Measures
SECTION	5 - Fire Fighting Measures
SECTION	6 - Accidental Release Measures
SECTION	7 - Handling and Storage

SECTION 1 - Chemical Product and Company Identification

SECTION 8 - Exposure Controls and Personal Protection

SECTION 9 - Physical and Chemical Properties

SECTION 10 - Stability and Reactivity
SECTION 11 - Toxicological Information
SECTION 12 - Ecological Information
SECTION 13 - Disposal Considerations
SECTION 14 - Transport Information
SECTION 15 - Regulatory Information
SECTION 16 - Other Information

#### SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

1.1 Product Name Sulfidic Caustic Solution Chemical Family Inorganic Salt Solution

Synonyms NA (mixture)
Formula NA (mixture)

1.2 Manufacturer CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021 713-676-1460

1.3 Emergency Contact Matt Bowman 713-826-1329 CHEMTREC 800-424-9300

#### SECTION 2 - COMPOSITION and INFORMATION ON INGREDIENTS

#### 2.1 Chemical Ingredients (% by wt)

#### Typical Analysis

Sodium Sulfide (Na2S)	CAS#: 1313-82-2	2 - 15%
Sodium Hydroxide (NaOH)	CAS#: 1310-73-2	0 - 15%
Sodium Hydrosulfide (NaHS)	CAS# 16721-80-5	0 - 5%
Sodium Carbonate (Na2CO3)	CAS#: 497-19-8	0 - 4%
Water		remaining %

(See Section 8 for exposure guidelines)

#### SECTION 3 - HAZARDS IDENTIFICATION

NFPA:

Health - 3

Flammability – 0

Reactivity - 1

#### **EMERGENCY OVERVIEW**

Warning: Solution is highly alkaline.

May evolve small amounts of hydrogen sulfide, a highly toxic gas. EYE contact will cause marked eye irritation and possible corneal damage. SKIN contact will result in irritation and possible corrosion of the skin. INGESTION will irritate and burn the mouth, throat and the gastrointestinal tract; contact with stomach acid will cause hydrogen sulfide vapors to be released. HEATING or ACID contact will cause hydrogen sulfide gas to evolve.

#### 3.1 POTENTIAL HEALTH EFFECTS

**EYE:** Contact with the eyes will cause marked eye irritation and possibly severe corneal damage.

**SKIN CONTACT:** Contact with the skin will cause skin irritation or a burning sensation. Prolonged contact will result in corrosion of the skin.

SKIN ABSORPTION: Absorption is unlikely to occur.

**INGESTION:** Ingestion will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved.

**INHALATION:** Product solution and vapors contain some highly toxic hydrogen sulfide gas. Exposure to this gas causes headaches, nausea, dizziness and vomiting. Continued exposure can lead to loss of consciousness and death.

CHRONIC EFFECTS – CARCINOGENICITY: Not listed as a carcinogen by NTP, IARC or OSHA.

#### SECTION 4 - FIRST AID MEASURES

- 4.1 **EYES:** Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye. Obtain immediate medication.
- 4.2 **SKIN:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention.
- 4.3 **INGESTION:** DO NOT INDUCE VOMITING. If victim is conscious, immediately give 2 to 4 glasses of water. if vomiting does occur, repeat fluid administration. Obtain immediate medical attention.
- 4.4 **INHALATION:** Remove victim form contaminated atmosphere. If breathing is labored, administer oxygen. If breathinghas ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

#### SECTION 5 - FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

FLASH POINT: Not Flammable

METHOD USED: NA

5.2 FLAMMABLE LIMITS: Hydrogen Sulfide

LFL: 4%

UFL: 44%

- 5.3 EXTINGUISHING MEDIA: Water spray or foam or as appropriate for combustion involved in fire.
- 5.4 FIRE and EXPLOSIVE HAZARDS: Solution is non-flammable. However if these solutions are exposed to heat or acids, hydrogen sulfide will be released and may form explosive mixtures with air (see above). Keep containers and/or storage vessels in fire area cooled with water spray. Heating may cause the release of hydrogen sulfide vapors.
- 5.5 FIRE FIGHTING EQUIPMENT: Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent) and full protective gear.

#### SECTION 6 - ACCIDENTIAL RELEASE MEASURES

- 6.1 SMALL RELEASES: Isolate for 75 feet. Confine area to qualified response personnel. Wear proper Personnel Protective equipment (See Section 8). Confine release material by berming or diverting its path Absorb on sand, earth or other inert dry absorbent. Do not allow into sewer, storm drains or any waterway. Oxidize residual reactive sulfides with a weak (3-5%) hydrogen peroxide solution to stop the release of toxic hydrogen sulfide. Remove contaminated soil and dispose of in accordance with all governmental regulations.
- 6.2 LARGE RELEASES: Activate Emergency Response Plan procedures. Isolate release area for 500 feet. Confine area to qualified response personnel. Wear proper Personnel Protective Equipment (See Section 8). Shut off release, if safe to do so. Dike spill area to prevent runoff into sewers, drains (potential toxic and explosive mixtures of hydrogen sulfide in confined spaces) or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (See 6.1).

#### SECTION 7 - HANDLING and STORAGE

- 7.1 HANDLING: Wear proper protective equipment (See Section 8). Avoid breathing product vapors. Avoid contact with skin and eyes. Use only in a well ventilated area. Dilute product only in enclosed containers. Wash thoroughly after handling.
- 7.2 STORAGE: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures [<80 F (27 C)]. (See Section 10.4 for materials of construction)

**Sulfidic Caustic Solution** 

#### SECTION 8 - EXPOSURE CONTROLS and PERSONAL PROTECTION

- 8.1 RESPIRATORY PROTECTION: If working near open container or storage vessel opening or open tank truck dome cover, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent).
- 8.2 SKIN PROTECTION: Neoprene rubber gloves, chemical suit and boots should be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded.
- 8.3 EYE PROTECTION: Chemical goggles and a full face shield.

8.4 EXPOSURE GUIDELINES:

**OSHA** 

ACGIH

...

TWA STEL

TLV STEL

Hydrogen Sulfide 20 ppm (ceiling)

10 ppm (ceiling)

8.5 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub process or storage vessel vapors with caustic solution. Maintain eye wash safety shower in areas where chemical is handled.

#### SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

- 9.1 APPEARANCE: Light to dark brown to green or red liquid.
- 9.2 ODOR: Hydrocarbon (mercaptan), possibly hydrogen sulfide (rotten egg) odor.
- 9.3 BOILING POINT: Not Determined
- 9.4 VAPOR PRESSURE: Not Determined
- 9.5 VAPOR DENSITY: (Air = 1.0) 1.17
- 9.6 SOLUBILITY IN WATER: Complete
- 9.7 SPECIFIC GRAVITY: 1.03 1.3 (8.59 10.83 lbs/gal)
- 9.8 pH: 11.5 13.5
- 9.9 VOLATILE: Not Determined

#### SECTION 10 - STABILITY and REACTIVITY

- 10.1 STABILITY: This is a stable material.
- 10.2 HAZARDOUS POLYMERIZATION: Will not occur.
- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Heating product will evolve H2S gas. fire conditions will cause the production of sulfur dioxide. Hydrogen sulfide (4 44%) may form flammable mixtures with air.
- 10.4 INCOMPATIBILITY: Acids will cause the release of highly toxic hydrogen sulfide. Sulfidic caustic solution is not compatible with copper, zinc, aluminum or their alloys (i.e. bronze, brass, galvanized metals, etc.). Corrosive to steel above 150 F (65.5 C). These materials of

**Sulfidic Caustic Solution** 

#### SECTION 10 – STABILITY and REACTIVITY (Continued)

construction should not be used in handling systems or storage containers for this product. (See Section 7.2 Storage)

#### SECTION 11 - TOXICOLOGICAL INFORMATION

- 11.1 ORAL: Data not available.
- 11.2 DERMAL: Data not available.
- 11.3 INHALATION: INH-RAT LC 50: 444 ppm (hydrogen sulfide)
- 11.4 CHRONIC and CARCINOGENICITY: No evidence available.
- 11.5 TERATOLOGY: Data not available.
- 11.6 REPRODUCTION: Data not available.
- 11.7 MUTAGENICITY: Data not available.

#### SECTION 12 - ECOLOGICAL INFORMATION

None Available

#### SECTION 13 - DISPOSAL CONSIDERATIONS

If released to the environment for other than its intended purpose, this product contains some reactive sulfides but not a sufficient quantity to meet the definition of a D003, hazardous waste. The pH may be high enough to meet the definition of a corrosive waste, D002.

#### **SECTION 14 - TRANSPORT INFORMATION**

- 14.1 DOT SHIPPING NAME: Corrosive liquids, n.o.s.
- 14.2 DOT HAZARD CLASS: 8
- 14.3 UN/NA NUMBER: UN1760
- 14.4 PACKING GROUP: II
- 14.5 DOT PLACARD: Corrosive
- 14.6 DOT LABLE(s): Corrosive
- 14.7 IMO SHIPPING NAME: Sodium Hydroxide Solution

-

- 14.8 RQ (REPORTABLE QUANTITY): 1,000 lbs (454 Kg) 100% basis (Approx. 538 gals)
- 14.9 USCG BARGE CERTIFICATION: SSH (sodium sulfide, hydrosulfide solutions, H2S 15 ppm or less). SSI (sodium sulfide, hydrosulfide solutions, H2S greater than 15 ppm but less than 200 ppm).

**Sulfidic Caustic Solution** 

#### SECTION 15 - REGULATORY INFORMATION

- 15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910,1200.
- 15.2 SARA TITLE III. a. EHS (Extremely Hazardous Substance) List:
  - b. Sections 311 and 312 (Tier I, II) Categories:

Immediate (acute)

Yes

Fire

No

Sudden Release

No

Reactivity

Yes

Delayed (chronic)

No

- c. Section 313 (Toxic Release Report-Form R):
- d. TPQ (Threshold Planning Quantity): No
- 15.3 CERCLA and SUPERFUND: RQ (Reportable Quantity) 1,000 lbs
- 15.4 TSCA (Toxic Substance Control Act) Inventory List: Yes
- 15.5 RCRA (Resource Conservation and Recovery Act) Status: Yes
- 15.6 WHMIS (Canada) Hazard Classification: E, D1
- 15.7 DOT HAZARDOUS MATERIAL: (See Section 14) Yes
- 15.8 CAA HAZARDOUS AIR POLLUTANT (HAP): No

#### SECTION 16 - OTHER INFORMATION

REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-1993.

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSAREY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE THE MATERIAL SAFETY DATA SHEET PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

**Sulfidic Caustic Solution** 

2376

CES #2376

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 9/26/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile# 2376

**Producer:** CES Environmental Services, Inc.

Address: 4904 Griggs Rd

Houston, TX 77021

#### Material / Product Information

Name of Material / Product Spent Phenolic Caustic

**Container Type:** 

Barge and rail

#### Detailed Description of Process Generating or Producing the Material / Product:

Primarily generated from extraction of sulfur compounds from FCC or Coker Gasolines using virgin caustic

Color: Light to dark brown to Odor: Hydrocarbon (mercapt pH: 11.5-13.5

**Physical State:** 

**Incompatibilities:** see MSDS

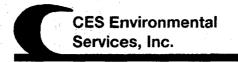
Safety Related Data/Special Handling:

see MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

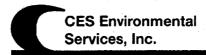
Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Producer Inform	ation	÷	
Company:	CES		\	
Address:		-(	MAN	
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Phone No:		<del>(                                    </del>	<del></del>	
24/hr Phone:		$\overline{}$	Fax No:	
U.S. EPA I.D. No:		<del>, <b>`</b></del>	<del></del>	
State I.D.		<u></u>	SIC Code:	
State 1.D.			Sic Code.	
SECTION 2: Billing	g Information – 🔲 S	ame as Above		
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City, State, Zip:				
Contact:		Title:		
Phone No:		Fax No:		
SECTION 2 S	15 X	75 ( 11/2 )		
SECTION 3: Gener	( <b>1</b> /2 / N	. ^	15	
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				_ FROM FCC DE COKER GASOLINES.
	_			MAKED CACHINGS
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	☐ Solid	☐ Filter Cake	Combination	
		•		
Color:	U	dor:		
Specific Gravity (wa	ter=1):	Density: lbs/ga	ıl	
Layers:	☐ Single-phase	Multi-phase		
Container Type:	☐ Drum	☐ Tote	Truck	Other (explain)
Container Size:	LJ DIUM			
Container Size.				<del></del>
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Oil&Grease	TOC	Zinc mg/l	Copper	Nickel mg/l
mg/l	mg/l	mg/l=	mg/l	mg/l <del>還</del>

SECTION 4: Physical and Chemical Data			
COMPONENTS TABLE		Concentration	Units
The material / product consists of the following mater	ials R	anges are acceptable	or %
CAME NS VI	NDV		
JANUS PS Sur			
- Plyla			
Y Voca		(	
SALB OV COMPY	(	5-250	)
SECTION 5: Safety Related Data  If the handling of this material / product requires the use of specific product.	5 Soonum	CRECUI ME	
SECTION 5: Safety Related Data	in-GS	Chroning	<b>ン</b>
If the handling of this material / product requires the use of sp	pecial protective equ	ipment, please explain	l
	•		
SECTION 6. Attached Summenting Decuments			
SECTION 6: Attached Supporting Documents			
List all documents, notes, data, and/or analysis attached to this	form as part of the	e material / product pr	ofile.
<del></del>			
SECTION 7: Incompatibilities		**	
Please list all incompatibilities (if any):		,	
		•	
SECTION 8: Material Producer's Certification		the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard o	
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CES USE ONLY (DO NOT WRITE IN THIS SPACE)			
Fechnical Manager:	Process Facility I		<b>J</b>
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4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	ial Produ	cer Infor	mation								
Company :	CES Er	nvironme	ental Ser	vices, Inc	<b>;.</b>						
Address :	4904 G	riggs Ro	4904 0	riggs Ro	ad						
City, State, Zip:	Houston	n TX 77	021								
Contact :	Matt Bo	wman		-			Ti	tle :			
Phone No :	(713) 67	76-1460	)				Fa	ax:		-	
24 / HR Phone :											
U.S EPA I.D No:	na							- V			
State I.D:	na						SI	IC Code na	1		
SECTION 2: Billing	Informat	tion									
Company :	CES En	vironme	ental Ser	vices, Inc					,		
Address :	4904 Gr	riggs Rd	4904 G	riggs Ro	ad						
City, State, Zip :	Houston	1 TX 770	021								
Contact :							Ti	tie :	•		
Phone No :	(713) 67	76-1460		* -			Fa	 ax :			
SECTION 3: Genera											
Name of Mateiral	/ Produc	ct :Sper	nt Pheno	lic Causti	С						
Detailed Descript	tion of th	ne Proc	ess Gen	erating o	r Prod	ucing the l	Material <i>l</i>	/ Product:			
Primarily generate	ed from e	xtraction	n of sulfu	r compou	ınds fro	m FCC or	Coker Ga	solines usir	ng virgin causti	c ·	
Physical State :	[2] [	Liquid			udge		■ Powde	er			
r Hysicai State .				_	_						
	<u></u>	Solid		∭ Fi	lter Cak	e	Combi	ination			
Color :		ht t	o dark bi	own to g	reen or	red liqOdo	r:	-	Hydrocarbon (	(mercaptan), ro	tten egg
Specific Gravity (	Water=1	):		1.03-1.3	}	Den	sity :		8.7-	10	lbs / gal
Layers :	<b>✓</b> \$	Single-F	Phas	M	ulti-Ph	ase					
Container Type :		Orum		Tote	<b>V</b>	Truck	⊚ Ot	ther (explai	n)	Barge and rail	
Container Size :	_		_					•	-		_
	-						<del></del>				
Number Of Units	:										
Proper U.S. DOT	Shipping	g Name	:				Corros	sive liquids,	n.o.s.		
Class: 8			UN/NA :	8			PG:	8		RQ:	8
Flash Point	t		pН							Solid	ls
na	_ [		11.5-13.	5						0	%
Oil and Great						Zinc	<del>- i</del>	<u> </u>	pper	Nick	-1
Jii alia Olca	se .		TOC					1.6			8
na	mg/l		TOC na	mg/i		na	mg/l	1100	na mg/l	na	

### SECTION 4: Physical and Chemical Data

Th	COMPONENTS TABLE ne material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
	Water	85	%
	Sodium hydroxide	2-10	%
	Sodium sulfide	0-3	· %
	Sodium carbonate	0-5	%
	Sodium mercaptide	0-5	%
	Salts of cresylic acids (sodium cresylate) and no carbonates	5-25	%

Sodium sulfide	0-3	%
Sodium carbonate	0-5	%
Sodium mercaptide	0-5	%
Salts of cresylic acids (sodium cresylate) and no carbonates	5-25	%
ECTION 5: Safety Related Data		
the handling of this material / product requires the use of special protective	ve equipment, please explain.	
ee MSDS	o oquipinoni, piono onpinin	•
ECTION 6: Attached Supporting Documents		
st all documents, notes, data, and/or analysis attached to this form as part se MSDS	t of the material / product profile.	i.
ECTION 7: Incompatibilities		
ease list all incompatibilities (if any):		
e MSDS		
ECTION 8: Material Producer's Certification		
ne information contained herein is based on ☑ generator knowledge and bove and attached description is complete and accurate to the best of my keliberate or willful omissions of composition properties exist and that all keliberate. I certify that the materials tested are representative of all materials.	knowledge and ability to determin nown or suspected hazards have	e that no
uthorized Signature :/ \( \sum / \sum / \frac{1}{2} \)	Date : 9/26/2007	
rinted Name / Title: not required /		
INREGRATIONE / TILLE . IIVLICUUIICU /		
miled rame / ride . motrequired /		*****
	Special Pricing / Analytical	Info:
ES USE ONLY (DO NOT WRITE IN THIS SPACE)	Special Pricing / Analytical	Info:
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Special Pricing / Analytical Recommended Treatmen	
ses USE ONLY (DO NOT WRITE IN THIS SPACE)  compliance Officer: Prabhakar Thangudu Approved Rejected		

# **Material Safety Data Sheet**

Spent phenolic Caustic

SECTION	1	<ul><li>Chemical</li></ul>	Product and	Company	Identification
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SECTION 2 - Composition, Information on Ingredients

SECTION 3 - Hazards Identification

SECTION 4 - First Aid Measures

SECTION 5 - Fire Fighting Measures

SECTION 6 - Accidental Release Measures

SECTION 7 - Handling and Storage

SECTION 8 - Exposure Controls and Personal Protection

SECTION 9 - Physical and Chemical Properties

SECTION 10 - Stability and Reactivity

SECTION 11 - Toxicological Information

SECTION 12 - Ecological Information

SECTION 13 - Disposal Considerations

SECTION 14 - Transport Information

SECTION 15 - Regulatory Information

SECTION 16 - Other Information

#### SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

1.1 Product Name Sulfidic Caustic Solution
Chemical Family Inorganic Salt Solution

Synonyms NA (mixture)
Formula NA (mixture)

1.2 Manufacturer CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021 713-676-1460

1.3 Emergency Contact Matt Bowman 713-826-1329

CHEMTREC 800-424-9300

#### SECTION 2 - COMPOSITION and INFORMATION ON INGREDIENTS

#### 2.1 Chemical Ingredients (% by wt)

### Typical Analysis

 Sodium Sulfide (Na2S)
 CAS#: 1313-82-2
 2 – 15%

 Sodium Hydroxide (NaOH)
 CAS#: 1310-73-2
 0 – 15%

 Sodium Hydrosulfide (NaHS)
 CAS# 16721-80-5
 0 – 5%

 Sodium Carbonate (Na2CO3)
 CAS#: 497-19-8
 0 – 4%

 Water
 remaining %

(See Section 8 for exposure guidelines)

#### SECTION 3 - HAZARDS IDENTIFICATION

NFPA:

Health - 3

Flammability - 0

Reactivity - 1

#### **EMERGENCY OVERVIEW**

Warning: Solution is highly alkaline.

May evolve small amounts of hydrogen sulfide, a highly toxic gas. EYE contact will cause marked eye irritation and possible corneal damage. SKIN contact will result in irritation and possible corrosion of the skin. INGESTION will irritate and burn the mouth, throat and the gastrointestinal tract; contact with stomach acid will cause hydrogen sulfide vapors to be released. HEATING or ACID contact will cause hydrogen sulfide gas to evolve.

#### 3.1 POTENTIAL HEALTH EFFECTS

**EYE:** Contact with the eyes will cause marked eye irritation and possibly severe corneal damage.

**SKIN CONTACT:** Contact with the skin will cause skin irritation or a burning sensation. Prolonged contact will result in corrosion of the skin.

SKIN ABSORPTION: Absorption is unlikely to occur.

**INGESTION:** Ingestion will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved.

**INHALATION:** Product solution and vapors contain some highly toxic hydrogen sulfide gas. Exposure to this gas causes headaches, nausea, dizziness and vomiting. Continued exposure can lead to loss of consciousness and death.

CHRONIC EFFECTS – CARCINOGENICITY: Not listed as a carcinogen by NTP, IARC or OSHA.

#### SECTION 4 - FIRST AID MEASURES

- 4.1 **EYES:** Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye. Obtain immediate medication.
- 4.2 **SKIN:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention.
- 4.3 **INGESTION:** DO NOT INDUCE VOMITING. If victim is conscious, immediately give 2 to 4 glasses of water. if vomiting does occur, repeat fluid administration. Obtain immediate medical attention.
- 4.4 **INHALATION:** Remove victim form contaminated atmosphere. If breathing is labored, administer oxygen. If breathinghas ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

**Sulfidic Caustic Solution** 

#### SECTION 5 - FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

FLASH POINT: Not Flammable

METHOD USED: NA

5.2 FLAMMABLE LIMITS: Hydrogen Sulfide

LFL: 4%

**UFL: 44%** 

- 5.3 EXTINGUISHING MEDIA: Water spray or foam or as appropriate for combustion involved in fire.
- 5.4 FIRE and EXPLOSIVE HAZARDS: Solution is non-flammable. However if these solutions are exposed to heat or acids, hydrogen sulfide will be released and may form explosive mixtures with air (see above). Keep containers and/or storage vessels in fire area cooled with water spray. Heating may cause the release of hydrogen sulfide vapors.
- 5.5 FIRE FIGHTING EQUIPMENT: Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent) and full protective gear.

#### SECTION 6 - ACCIDENTIAL RELEASE MEASURES

- 6.1 SMALL RELEASES: Isolate for 75 feet. Confine area to qualified response personnel. Wear proper Personnel Protective equipment (See Section 8). Confine release material by berming or diverting its path Absorb on sand, earth or other inert dry absorbent. Do not allow into sewer, storm drains or any waterway. Oxidize residual reactive sulfides with a weak (3-5%) hydrogen peroxide solution to stop the release of toxic hydrogen sulfide. Remove contaminated soil and dispose of in accordance with all governmental regulations.
- 6.2 LARGE RELEASES: Activate Emergency Response Plan procedures. Isolate release area for 500 feet. Confine area to qualified response personnel. Wear proper Personnel Protective Equipment (See Section 8). Shut off release, if safe to do so. Dike spill area to prevent runoff into sewers, drains (potential toxic and explosive mixtures of hydrogen sulfide in confined spaces) or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (See 6.1).

#### SECTION 7 - HANDLING and STORAGE

- 7.1 HANDLING: Wear proper protective equipment (See Section 8). Avoid breathing product vapors. Avoid contact with skin and eyes. Use only in a well ventilated area. Dilute product only in enclosed containers. Wash thoroughly after handling.
- 7.2 STORAGE: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures [<80 F (27 C)]. (See Section 10.4 for materials of construction)

**Sulfidic Caustic Solution** 

#### SECTION 8 - EXPOSURE CONTROLS and PERSONAL PROTECTION

- 8.1 RESPIRATORY PROTECTION: If working near open container or storage vessel opening or open tank truck dome cover, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent).
- 8.2 SKIN PROTECTION: Neoprene rubber gloves, chemical suit and boots should be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded.
- 8.3 EYE PROTECTION: Chemical goggles and a full face shield.

8.4 EXPOSURE GUIDELINES:

**OSHA** 

**ACGIH** 

TWA STEL

TLV STEL

Hydrogen Sulfide 2

20 ppm (ceiling)

10 ppm (ceiling)

8.5 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub process or storage vessel vapors with caustic solution. Maintain eye wash safety shower in areas where chemical is handled.

#### SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

- 9.1 APPEARANCE: Light to dark brown to green or red liquid.
- 9.2 ODOR: Hydrocarbon (mercaptan), possibly hydrogen sulfide (rotten egg) odor.
- 9.3 BOILING POINT: Not Determined
- 9.4 VAPOR PRESSURE: Not Determined
- 9.5 VAPOR DENSITY: (Air = 1.0) 1.17
- 9.6 SOLUBILITY IN WATER: Complete
- 9.7 SPECIFIC GRAVITY: 1.03 1.3 (8.59 10.83 lbs/gal)
- 9.8 pH: 11.5 13.5
- 9.9 VOLATILE: Not Determined

#### SECTION 10 - STABILITY and REACTIVITY

- 10.1 STABILITY: This is a stable material.
- 10.2 HAZARDOUS POLYMERIZATION: Will not occur.
- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Heating product will evolve H2S gas. fire conditions will cause the production of sulfur dioxide. Hydrogen sulfide (4 44%) may form flammable mixtures with air.
- 10.4 INCOMPATIBILITY: Acids will cause the release of highly toxic hydrogen sulfide. Sulfidic caustic solution is not compatible with copper, zinc, aluminum or their alloys (i.e. bronze, brass, galvanized metals, etc.). Corrosive to steel above 150 F (65.5 C). These materials of

**Sulfidic Caustic Solution** 

#### SECTION 10 – STABILITY and REACTIVITY (Continued)

construction should not be used in handling systems or storage containers for this product. (See Section 7.2 Storage)

#### SECTION 11 - TOXICOLOGICAL INFORMATION

- 11.1 ORAL: Data not available.
- 11.2 DERMAL: Data not available.
- 11.3 INHALATION: INH-RAT LC 50: 444 ppm (hydrogen sulfide)
- 11.4 CHRONIC and CARCINOGENICITY: No evidence available.
- 11.5 TERATOLOGY: Data not available.
- 11.6 REPRODUCTION: Data not available.
- 11.7 MUTAGENICITY: Data not available.

#### SECTION 12 - ECOLOGICAL INFORMATION

None Available

#### SECTION 13 - DISPOSAL CONSIDERATIONS

If released to the environment for other than its intended purpose, this product contains some reactive sulfides but not a sufficient quantity to meet the definition of a D003, hazardous waste. The pH may be high enough to meet the definition of a corrosive waste, D002.

#### **SECTION 14 - TRANSPORT INFORMATION**

- 14.1 DOT SHIPPING NAME: Corrosive liquids, n.o.s.
- 14.2 DOT HAZARD CLASS: 8
- 14.3 UN/NA NUMBER: UN1760
- 14.4 PACKING GROUP: II
- 14.5 DOT PLACARD: Corrosive
- 14.6 DOT LABLE(s): Corrosive
- 14.7 IMO SHIPPING NAME: Sodium Hydroxide Solution
- 14.8 RQ (REPORTABLE QUANTITY): 1,000 lbs (454 Kg) 100% basis (Approx. 538 gals)
- 14.9 USCG BARGE CERTIFICATION: SSH (sodium sulfide, hydrosulfide solutions, H2S 15 ppm or less). SSI (sodium sulfide, hydrosulfide solutions, H2S greater than 15 ppm but less than 200 ppm).

**Sulfidic Caustic Solution** 

#### SECTION 15 - REGULATORY INFORMATION

- 15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910,1200.
- 15.2 SARA TITLE III. a. EHS (Extremely Hazardous Substance) List:
  - b. Sections 311 and 312 (Tier I, II) Categories:

Immediate (acute)

Yes

Fire

No

Sudden Release

No

Reactivity

Yes

Delayed (chronic)

No

- c. Section 313 (Toxic Release Report-Form R): No
- d. TPQ (Threshold Planning Quantity): No
- 15.3 CERCLA and SUPERFUND: RQ (Reportable Quantity) 1,000 lbs
- 15.4 TSCA (Toxic Substance Control Act) Inventory List: Yes
- 15.5 RCRA (Resource Conservation and Recovery Act) Status: Yes
- 15.6 WHMIS (Canada) Hazard Classification: E, D1
- 15.7 DOT HAZARDOUS MATERIAL: (See Section 14) Yes
- 15.8 CAA HAZARDOUS AIR POLLUTANT (HAP): No

#### SECTION 16 - OTHER INFORMATION

REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-1993.

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSAREY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE THE MATERIAL SAFETY DATA SHEET PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

Sulfidic Caustic Solution

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 9/26/2007

Dear

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2377

**Producer:** CES Environmental Services, Inc.

**Address:** 4904 Griggs Rd

Houston, TX 77021

#### Material / Product Information

Name of Material / Product Mixed Spent Caustics (High KK, high Cl)

Container Type:

Barge and rail

#### Detailed Description of Process Generating or Producing the Material / Product:

Primarily generated from extraction of sulfur compounds from light distillates using virg caustic

Color: Light to dark brown to Odor: Hydrocarbon (mercapt pH: 11.5-13.5)

**Physical State:** 

Incompatibilities: see MSDS

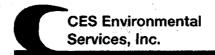
Safety Related Data/Special Handling:

see MSDS

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. mixed Sout Caustics (LASA Ky high CI) Some STUFF AS SULFID C SODIUM HYDRO +/OR PORASSIUM HYDROXIDE Storm CARBOTTOR
POTASSIUM A CARBONAGE Sourm CHORIDE 0520



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Producer Info	rmation					-			
Company :	CES Environm	ental Ser	vices, Inc.				<u> </u>	·		
Address:	4904 Griggs R	d 4904 G	riggs Roa	ad	·					
City, State, Zip:	Houston TX 77	021								
Contact:	Matt Bowman					Title	e:			
Phone No :	(713) 676-1460	)				Fax	:			
24 / HR Phone :					٠.					
U.S EPA I.D No:	na									
State I.D:	na					SIC	Code na			
SECTION 2: Billing	Information									
Company :	CES Environme	ental Serv	rices, Inc.							
Address :	4904 Griggs Ro	d 4904 G	riggs Roa	ıd						-
City, State, Zip:	Houston TX 77									
Contact :						Title	ə:		-	
Phone No:	(713) 676-1460	)				Fax	:			
SECTION 3: General										
Name of Mateiral	/ Product : Mixe	ed Spent	Caustics (	(High r	(K, high Cl)					
Detailed Descript	tion of the Proc	ess Gen	erating of	r Prod	ucing the I	/laterial / F	Product:			
Primarily generate	ed from extraction	n of sulfu	compou	nds fro	m light disti	llates using	g virgin caustic			
Physical State :	<b>✓</b> Liquid		Slu	udge	. [	Powder				
	Solid		Fil	ter Cak	e [	Combina	ation			
Color:	ht t	to dark br	own to gr	een or	red liq <b>Odo</b>	r:	Hydro	carbon (m	ercaptan), rotte	en egg
Specific Gravity (	Water=1) :		1.04-1.2		Dens	sity :		8.7-10	) !!	os / gal
Layers :	<b>✓</b> Single-	Phas	∭ Mu	ılti-Ph	ase					
Container Type :	M Drum		Tote	$\mathbf{Z}$	Truck		er (explain)	B	sarge and rail	
•		[387]	. 0.0	<b>(</b>	· · · · ·	<u> </u>	ci (oxpiairi)		<u></u>	
Container Size :										
Number Of Units	•	_								
Proper U.S. DOT	Shipping Name	:				Corrosiv	ve liquids, n.o.s.	· · · · · · · · · · · · · · · · · · ·		
Class: 8		UN/NA:	8			PG :	8		RQ:	8
				<u> </u>					Solids	
Flash Poin	t	pН				i i			Jonas	
Flash Poin na	t	<b>pH</b> 11.5-13.5	;						0	%
		-	· ·		Zinc		Copper			%

### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	85	%
Sodium hydroxide and /or potassium hydroxide	2-10	%
Sodium carbonate and /or potassium carbonate	0-5	%
Sodium chloride	0-5	%
Sodium chioride	U-5	%

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.  BECTION 7: Incompatibilities  Please list all incompatibilities (if any):  BECTION 8: Material Producer's Certification  The information contained herein is based on   generator knowledge and/or   analytical data. I hereby cerity bove and attached description is complete and accurate to the best of my knowledge and ability to determine the leliberate or willful omissions of composition properties exist and that all known or suspected hazards have been lisclosed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature:  Date: 9/26/2007  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Date: 9/26/2007  Rejected  Recommended Treatment:		Sodium chloride	0-5 %
SECTION 6: Attached Supporting Documents  List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. see MSDS  SECTION 7: Incompatibilities  Please list all incompatibilities  Please list all incompatibilities (if any): see MSDS  SECTION 8: Material Producer's Certification The information contained herein is based on   generator knowledge and/or  analytical data. I hereby cerity bove and attached description is complete and accurate to the best of my knowledge and ability to determine the leliberate or willful omissions of composition properties exist and that all known or suspected hazards have been isclosed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature:  Date: 9/26/2007  Printed Name / Title: not required /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Approved  Rejected  Recommended Treatment:	SECTION 5: Safety Related Da	ata	
SECTION 7: Incompatibilities  Please list all incompatibilities (if any):  SECTION 8: Material Producer's Certification  The information contained herein is based on ☑ generator knowledge and/or ☑ analytical data. I hereby cerity above and attached description is complete and accurate to the best of my knowledge and ability to determine the leliberate or willful omissions of composition properties exist and that all known or suspected hazards have been lisclosed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature:  Date: 9/26/2007  Printed Name / Title: not required /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Date: 9/26/2007 Status: Approved Rejected Recommended Treatment:	If the handling of this mate see MSDS	erial / product requires the use of special p	protective equipment, please explain.
List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.  SECTION 7: Incompatibilities  Please list all incompatibilities (if any):  SECTION 8: Material Producer's Certification  The information contained herein is based on   See MSDS  SECTION 8: Material Producer's Certification  The information contained herein is based on   See material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's Certification  The information contained herein is based on   Sec material Producer's C			
SECTION 7: Incompatibilities  Please list all incompatibilities (if any):  see MSDS  SECTION 8: Material Producer's Certification  The information contained herein is based on ☑ generator knowledge and/or ☑ analytical data. I hereby cerity bove and attached description is complete and accurate to the best of my knowledge and ability to determine the leliberate or willful omissions of composition properties exist and that all known or suspected hazards have been lisclosed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature:  Date: 9/26/2007  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Date: 9/26/2007  Rejected  Recommended Treatment:	SECTION 6: Attached Support	ting Documents	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Date: 9/26/2007 Status: Approved Rejected Recommended Treatment:	•	data, and/or analysis attached to this form	as part of the material / product profile.
Please list all incompatibilities (if any):  SECTION 8: Material Producer's Certification  The information contained herein is based on  generator knowledge and/or  analytical data. I hereby cerity above and attached description is complete and accurate to the best of my knowledge and ability to determine the deliberate or willful omissions of composition properties exist and that all known or suspected hazards have beer disclosed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature:  Date: 9/26/2007  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Date: 9/26/2007 Status: Approved Rejected Recommended Treatment:	see MSDS		
SECTION 8: Material Producer's Certification  The information contained herein is based on generator knowledge and/or analytical data. I hereby cerity above and attached description is complete and accurate to the best of my knowledge and ability to determine the leliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature:  Date: 9/26/2007  Printed Name / Title: not required /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Special Pricing / Analytical Info:  Compliance Officer: Prabhakar Thangudu  Date: 9/26/2007 Status: Approved Rejected  Recommended Treatment:	SECTION 7: Incompatibilities		
The information contained herein is based on  generator knowledge and/or  analytical data. I hereby cerity above and attached description is complete and accurate to the best of my knowledge and ability to determine the deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.  Authorized Signature:  Date: 9/26/2007  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Printed Name / Special Pricing / Analytical Information (Approved Rejected Recommended Treatment:	· ·	ities (if any):	
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Printed Name / Title: not required /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Date: 9/26/2007 Status: Approved Rejected Recommended Treatment:	bove and attached descri leliberate or willful omissi	ption is complete and accurate to the best ons of composition properties exist and th	of my knowledge and ability to determine that no nat all known or suspected hazards have been
Printed Name / Title: not required /  CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer: Prabhakar Thangudu  Date: 9/26/2007 Status: Approved Rejected Recommended Treatment:	Authorized Signature :	NA	Data : 9/26/2007
Compliance Officer: Prabhakar Thangudu Pollud Hay Approved Rejected Recommended Treatment:		required /	Date
Date: 9/26/2007 Status: Approved Rejected Recommended Treatment:	CES USE ONLY (DO NOT	WRITE IN THIS SPACE)	Special Pricing / Analytical Info:
Recommended Treatment.	Compliance Officer: Pr	abhakar Thangudu	
Approval Number: 2377	Date: 9/26/2007	Status : Approved Rejected	Recommended Treatment:
	Approval Number :	2377	
			.,

# **Material Safety Data Sheet**

Mixed Spent Constics
SULFIDIG CAUSTIC SOLUTION

SECTION 1 - Chemical Product and Company Identification

SECTION 2 - Composition, Information on Ingredients

SECTION 3 - Hazards Identification

SECTION 4 - First Aid Measures SECTION 5 - Fire Fighting Measures

SECTION 6 - Accidental Release Measures

SECTION 7 - Handling and Storage

SECTION 8 - Exposure Controls and Personal Protection

SECTION 9 - Physical and Chemical Properties

SECTION 10 - Stability and Reactivity

SECTION 11 - Toxicological Information

SECTION 12 - Ecological Information

SECTION 13 - Disposal Considerations

SECTION 14 - Transport Information

SECTION 15 - Regulatory Information

SECTION 16 - Other Information

#### SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

1.1 Product Name

Chemical Family

Inorganic Salt Solution
NA (mixture)

Synonyms Formula

NA (mixture)

1.2 Manufacturer

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021

Sulfidic Caustic Solution

713-676-1460

1.3 Emergency Contact

Matt Bowman 713-826-1329 CHEMTREC 800-424-9300

#### SECTION 2 - COMPOSITION and INFORMATION ON INGREDIENTS

## 2.1 Chemical Ingredients (% by wt)

#### Typical Analysis

 Sodium Sulfide (Na2S)
 CAS#: 1313-82-2
 2 – 15%

 Sodium Hydroxide (NaOH)
 CAS#: 1310-73-2
 0 – 15%

 Sodium Hydrosulfide (NaHS)
 CAS# 16721-80-5
 0 – 5%

 Sodium Carbonate (Na2CO3)
 CAS#: 497-19-8
 0 – 4%

Water remaining %

(See Section 8 for exposure guidelines)

**Sulfidic Caustic Solution** 

Page 1 of 6

#### SECTION 3 - HAZARDS IDENTIFICATION

NFPA:

Health – 3

Flammability – 0

Reactivity - 1

#### **EMERGENCY OVERVIEW**

Warning: Solution is highly alkaline.

May evolve small amounts of hydrogen sulfide, a highly toxic gas. EYE contact will cause marked eye irritation and possible corneal damage. SKIN contact will result in irritation and possible corrosion of the skin. INGESTION will irritate and burn the mouth, throat and the gastrointestinal tract; contact with stomach acid will cause hydrogen sulfide vapors to be released. HEATING or ACID contact will cause hydrogen sulfide gas to evolve.

#### 3.1 POTENTIAL HEALTH EFFECTS

**EYE:** Contact with the eyes will cause marked eye irritation and possibly severe corneal damage.

**SKIN CONTACT:** Contact with the skin will cause skin irritation or a burning sensation. Prolonged contact will result in corrosion of the skin.

**SKIN ABSORPTION:** Absorption is unlikely to occur.

**INGESTION:** Ingestion will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved.

**INHALATION:** Product solution and vapors contain some highly toxic hydrogen sulfide gas. Exposure to this gas causes headaches, nausea, dizziness and vomiting. Continued exposure can lead to loss of consciousness and death.

CHRONIC EFFECTS – CARCINOGENICITY: Not listed as a carcinogen by NTP, IARC or OSHA.

#### SECTION 4 - FIRST AID MEASURES

- 4.1 **EYES:** Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye. Obtain immediate medication.
- 4.2 **SKIN:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention.
- 4.3 **INGESTION:** DO NOT INDUCE VOMITING. If victim is conscious, immediately give 2 to 4 glasses of water. if vomiting does occur, repeat fluid administration. Obtain immediate medical attention.
- 4.4 **INHALATION:** Remove victim form contaminated atmosphere. If breathing is labored, administer oxygen. If breathinghas ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

**Sulfidic Caustic Solution** 

#### SECTION 5 - FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

FLASH POINT: Not Flammable

METHOD USED: NA

5.2 FLAMMABLE LIMITS: Hydrogen Sulfide

LFL: 4%

UFL: 44%

- 5.3 EXTINGUISHING MEDIA: Water spray or foam or as appropriate for combustion involved in fire.
- 5.4 FIRE and EXPLOSIVE HAZARDS: Solution is non-flammable. However if these solutions are exposed to heat or acids, hydrogen sulfide will be released and may form explosive mixtures with air (see above). Keep containers and/or storage vessels in fire area cooled with water spray. Heating may cause the release of hydrogen sulfide vapors.
- 5.5 FIRE FIGHTING EQUIPMENT: Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent) and full protective gear.

#### SECTION 6 - ACCIDENTIAL RELEASE MEASURES

- 6.1 SMALL RELEASES: Isolate for 75 feet. Confine area to qualified response personnel. Wear proper Personnel Protective equipment (See Section 8). Confine release material by berming or diverting its path Absorb on sand, earth or other inert dry absorbent. Do not allow into sewer, storm drains or any waterway. Oxidize residual reactive sulfides with a weak (3-5%) hydrogen peroxide solution to stop the release of toxic hydrogen sulfide. Remove contaminated soil and dispose of in accordance with all governmental regulations.
- 6.2 LARGE RELEASES: Activate Emergency Response Plan procedures. Isolate release area for 500 feet. Confine area to qualified response personnel. Wear proper Personnel Protective Equipment (See Section 8). Shut off release, if safe to do so. Dike spill area to prevent runoff into sewers, drains (potential toxic and explosive mixtures of hydrogen sulfide in confined spaces) or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (See 6.1).

#### SECTION 7 - HANDLING and STORAGE

- 7.1 HANDLING: Wear proper protective equipment (See Section 8). Avoid breathing product vapors. Avoid contact with skin and eyes. Use only in a well ventilated area. Dilute product only in enclosed containers. Wash thoroughly after handling.
- 7.2 STORAGE: Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures [<80 F (27 C)]. (See Section 10.4 for materials of construction)

### SECTION 8 - EXPOSURE CONTROLS and PERSONAL PROTECTION

- 8.1 RESPIRATORY PROTECTION: If working near open container or storage vessel opening or open tank truck dome cover, wear self-contained breathing apparatus, positive pressure, MSHA / NIOSH (approved or equivalent).
- 8.2 SKIN PROTECTION: Neoprene rubber gloves, chemical suit and boots should be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded.
- 8.3 EYE PROTECTION: Chemical goggles and a full face shield.

8.4 EXPOSURE GUIDELINES:

OSHA

ACGIH

TWA STEL

TLV STEL

Hydrogen Sulfide 20 ppm (ceiling) 10 ppm (ceiling)

8.5 ENGINEERING CONTROLS: Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub process or storage vessel vapors with caustic solution. Maintain eye wash safety shower in areas where chemical is handled.

### SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

9.1 APPEARANCE: Light to dark brown to green or red liquid.

9.2 ODOR: Hydrocarbon (mercaptan), possibly hydrogen sulfide (rotten egg) odor.

9.3 BOILING POINT: Not Determined

9.4 VAPOR PRESSURE: Not Determined

9.5 VAPOR DENSITY: (Air = 1.0) 1.17

9.6 SOLUBILITY IN WATER: Complete

9.7 SPECIFIC GRAVITY: 1.03 – 1.3 (8.59 – 10.83 lbs/gal)

9.8 pH: 11.5 - 13.5

9.9 VOLATILE: Not Determined

### SECTION 10 - STABILITY and REACTIVITY

- 10.1 STABILITY: This is a stable material.
- 10.2 HAZARDOUS POLYMERIZATION: Will not occur.
- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Heating product will evolve H2S gas. fire conditions will cause the production of sulfur dioxide. Hydrogen sulfide (4 44%) may form flammable mixtures with air.
- 10.4 INCOMPATIBILITY: Acids will cause the release of highly toxic hydrogen sulfide. Sulfidic caustic solution is not compatible with copper, zinc, aluminum or their alloys (i.e. bronze, brass, galvanized metals, etc.). Corrosive to steel above 150 F (65.5 C). These materials of

**Sulfidic Caustic Solution** 

06/24/07

## SECTION 10 – STABILITY and REACTIVITY (Continued)

construction should not be used in handling systems or storage containers for this product. (See Section 7.2 Storage)

### SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 ORAL: Data not available.

11.2 DERMAL: Data not available.

11.3 INHALATION: INH-RAT LC 50: 444 ppm (hydrogen sulfide)

11.4 CHRONIC and CARCINOGENICITY: No evidence available.

11.5 TERATOLOGY: Data not available.

11.6 REPRODUCTION: Data not available.

11.7 MUTAGENICITY: Data not available.

### SECTION 12 - ECOLOGICAL INFORMATION

None Available

### SECTION 13 - DISPOSAL CONSIDERATIONS

If released to the environment for other than its intended purpose, this product contains some reactive sulfides but not a sufficient quantity to meet the definition of a D003, hazardous waste. The pH may be high enough to meet the definition of a corrosive waste, D002.

### SECTION 14 - TRANSPORT INFORMATION

14.1 DOT SHIPPING NAME: Corrosive liquids, n.o.s.

14.2 DOT HAZARD CLASS: 8

14.3 UN/NA NUMBER: UN1760

14.4 PACKING GROUP: II

14.5 DOT PLACARD: Corrosive

14.6 DOT LABLE(s): Corrosive

14.7 IMO SHIPPING NAME: Sodium Hydroxide Solution

14.8 RQ (REPORTABLE QUANTITY): 1,000 lbs (454 Kg) 100% basis (Approx. 538 gals)

14.9 USCG BARGE CERTIFICATION: SSH (sodium sulfide, hydrosulfide solutions, H2S 15 ppm or less). SSI (sodium sulfide, hydrosulfide solutions, H2S greater than 15 ppm but less than 200 ppm).

**Sulfidic Caustic Solution** 

06/24/07

### SECTION 15 - REGULATORY INFORMATION

- 15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal OSHA Hazard Communication Standard, 29 CFR 1910.1200.
- 15.2 SARA TITLE III. a. EHS (Extremely Hazardous Substance) List:

b. Sections 311 and 312 (Tier I, II) Categories:

Immediate (acute)

Yes

Fire

No

Sudden Release

No

Reactivity

Yes

Delayed (chronic)

No

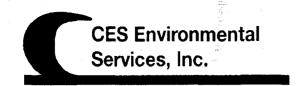
- c. Section 313 (Toxic Release Report-Form R): No
- d. TPQ (Threshold Planning Quantity): No
- 15.3 CERCLA and SUPERFUND: RQ (Reportable Quantity) 1,000 lbs
- 15.4 TSCA (Toxic Substance Control Act) Inventory List: Yes
- 15.5 RCRA (Resource Conservation and Recovery Act) Status: Yes
- 15.6 WHMIS (Canada) Hazard Classification: E, D1
- 15.7 DOT HAZARDOUS MATERIAL: (See Section 14) Yes
- 15.8 CAA HAZARDOUS AIR POLLUTANT (HAP): No

### **SECTION 16 – OTHER INFORMATION**

REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-1993.

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSAREY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE THE MATERIAL SAFETY DATA SHEET PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.

-



# Waste Pre-Acceptance/Approval Letter

Date 9/27/2007

Dear Robby Mersiovskky

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2378

Generator: Siemens Westinghouse

Address: 5730 Clinton Drive

Houston, TX 77020

# Waste Information

Name of Waste: Sandblast sand TCEO Waste Code #: 9993892

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Sand from sandblasting operations

Color: tan

Odor: none

pH: neutral

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Genera	ator Information					
Company:	Siemens Westingh	ouse				
Address:	5730 Clinton drive					
City, State, Zip:	Houston, Texas 77	020				
Contact:	Steve Fusieler			Title:	EH&S ma	nager
Phone No:	713-678-6119			Fax No:	713-678-3	3629
24/hr Phone:	same					
U.S. EPA I.D. No:	TXD001873	1884		_		
State I.D.	30780			SIC Code:	none	·
				_		
SECTION 2: Billing	Select Environmenta					
		<u> </u>				
-	223 McCarty					
· · · · · · · · · · · · · · · · · · ·	Houston, TX. 77029		Trial	Colos		
	Robby Mersiovsky		Title:	Sales	<del>-</del>	
Phone No:	713-882-7740		Fax No:	713-672-9425	<u> </u>	
SECTION 3: Gener	al Description of the	e Waste				
Name of Waste: sand		ing Waste: sand	d from sand l	olasting operation	<u>ons</u>	
Physical State:	☐ Liquid ⊠ Solid	☐ Sludge ☐ Filter Ca	ike [	Powder Combinatio	n	
e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l						
Color: tan	(	Odor: none				
Specific Gravity (wa	ter=1): <u>1-2-5</u>	Density: 16	-18 lbs/gal			
Layers:	Single-phase	☐ Mu	lti-phase			
Container Type:	Drum 🖂	☐ Tote		Truck		Other (explain)
Container Size:	<u>55</u>					
	· · · · · · · · · · · · · · · · · · ·					
		<b>—</b>	<del></del>			
Frequency:	☐ Weekly	∐ Monthl	•	Quarterly	Ш	Yearly
Number of Units (co	ntainers): <u>40</u>	Other:		•		
Texas State Waste C	Code No:	7999389	2			
Proper U.S. DOT Sh			RA, NOI	1-DOT 40	nt de d	maleral
Class:	UN/N	A: 754	1(14 ) 15 1/1	PG:	NA	RQ: NA
					<u> </u>	
Flash, Point	nU .	Reactive Sulfi	doe	Reactive C	vanides	Solids
riasii roint	Newbol	Meactive Suiti	ucs	Near Twe C		i Or %
Oil&Grease	TOC	Zinc		Copper	Nic	
<u>NP_</u> mg/l	TOC mg/l	<u>NA</u> mg	/1	M_mg/l		<u>/                                    </u>

### **SECTION 4: Physical and Chemical Data**

The	COMPONE waste consists of	Ra	Units or %		
sand blast sand	editor)		100	1 (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (district ) (dis	

### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain.

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. see analytical

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): none known

### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of generator knowledge:	the hazardous waste char	racteristics, listed below, V	VAS NOT PERFORMED ba	sed upon the following
TCLP Metals: TCLP Volatiles:	:			
TCLP Semi-Volatiles: Reactivity:				
Corrosivity: Ignitability:				
SECTION O. Compando	w's Contification			

### **SECTION 9: Generator's Certification**

The information contained herein is based on generator knowledge and/or analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signatures

Printed Name/Title: Date: 91467

CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officer:   Deballian	Additional Information: Add to Class 2 locx
Date: $9-27-07$ Approved Rejected	160 John + trans + FSC
Approval Number: 2378	
CO SURVER	

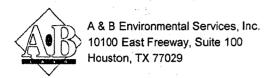
SE	ECTION 10: Waste Receipt Classification Under 40 CFR 4	<u>437</u>	03.75 03.75
Is	this material a wastewater or wastewater sludge?   YES	⊠ NO	
If	'Yes', complete this section.		्र <del>ावस्</del> रियः -
Di	FACE CHECK THE ADDRODDIATE DOV. IE NO ADDR	ODDIATE CATECODY CO TO T	FIIE NEVE DACE
PI	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	JPKIATE CATEGORY, GO TO T	HE NEXT PAGE.
Meta	als Subcategory: Subpart A		
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater	ectroplating or phosphating operation	ons
	Alkaline and acid solutions used to clean metal parts or equi	pment	
<u>Oils</u>	Subcategory: Subpart B	•	
	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	S	
<u>Org</u>	anics Subcategory: Subpart C		
	Landfill leachate Contaminated groundwater clean-up from non-petroleum so Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol	urces	
	Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources		

### **SECTION 11: Additional Instructions**

Organics Subcategory

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

### LABORATORY ANALYSIS REPORT



Report Date:

2/21/2006

Total No. Pages: 12

Client Project ID

# 02102006 Lathe Demolition & Sand Composite

Siemens Westinghouse - Houston Attn: Damon Crowther 5730 Clinton Drive Houston, TX 77020 Client PO#:

Date Received: 2/10/2006 12:42 Collected by: Damon Crowther

A & B Labs has analyzed the following samples . . .

Your Sample ID
02102006 / 1151 Lathe Pit
02102006 / 1201 Lathe Pit
02102006 / 0800 Sand Comp

Job ID

78024-01 78024-02 78024-03

Thank you for choosing A & B Labs.

Approved B	y:	Date:	
Title:			

This report cannot be reproduced, except in full, without prior written permission of A & B Labs. Results shown relate only to the items tested:

Phone: 713-453-6060 www.ablabs.com



### LABORATORY TEST RESULTS

A&B Job ID 78024

Date: 2/21/2006

CUSTOMER: Siemens Westinghouse - Houston

PROJECT: 02102006 Lathe Demolition & Sand Compo ATTN: Damon Crowther

Customer Sample ID: 02102006 / 1151 Lathe Pit

Job Sample ID: 78024-01

Date Collected:

Sample Matrix: Water

Time Collected: Sample Loc./Other Info:

2/10/2006 11:51

Test Method	Parameter/Test Description	Result	Units	D.F.	Rpt Limit	Reg Limit	Q	Date	Time	Analyst
EPA 608	Polychlorinated Biphenyls									
	Aroclor - 1016	BRL	mg/L	2	0.01	l ·		02/15	8:01	ss
	Aroclor - 1221	BRL	mg/L	2	0.02			02/15	8:01	SS
	Aroclor - 1232	BRL	mg/L	2	0.01			02/15	8:01	SS
	Aroclor - 1242	BRL	mg/L	2	0.01			02/15	8:01	ss
	Aroclor - 1248	BRL	mg/L	2	0.01	]		02/15	8:01	ss
	Aroclor - 1254	BRL	mg/L	2	0.01			02/15	8:01	ss
*	Aroclor - 1260	BRL	mg/L	2	0.01	1		02/15	8:01	ss



### LABORATORY TEST

A&B Job ID 78024

Date: 2/21/2006

CUSTOMER: Siemens Westinghouse - Houston PROJECT: 02102006 Lathe Demolition & Sand Compo ATTN: Damon Crowther

Customer Sample ID: 02102006 / 1201 Lathe Pit

Date Collected:

2/10/2006

Time Collected:

Sample Loc./Other Info:

12:01

Job Sample ID: 78024-02

Sample Matrix: Water

Test Method	Parameter/Test Description	Result	Units	D.F.	Rpt Limit	Reg Limit	Q	Date	Time	Analyst
SW-846 8260B	Volatile Organic Compounds						Γ			
	1.1.1.2-Tetrachioroethane	BRL	mg/L	1 1	0.005	1	Ì	02/10	18:46	YZ
	1,1,1-Trichloroethane	BRL	mg/L	1	0.005			l	18:46	YZ
	1,1,2,2-Tetrachloroethane	BRL	mg/L	1	0.005	]		•	18:46	YZ
	1.1.2-Trichloroethane	BRL	mg/L	li	0.005		l		18:46	YZ
	1.1-Dichloroethane	BRL	mg/L	1	0.005				18:46	YZ
	1,1-Dichloroethylene	BRL	mg/L	1	0.005	ļ	(		18:46	YZ
	1,1-Dichloropropene	BRL	mg/L	1	0.005		1		18:46	YZ
	1,2,3-Trichlorobenzene	BRL	mg/L	1	0.005		ļ	02/10	18:46	YZ
	1,2,3-Trichloropropane	BRL	mg/L	1	0.005		1		18:46	YZ
	1,2,4-Trichlorobenzene	BRL	mg/L	1	0.005	ļ			18:46	YZ
	1,2,4-Trimethylbenzene	BRL	mg/L	1	0.005		ı	i	18:46	YZ
	1,2-Dibromo-3-chloropropane	BRL	mg/L	1	0.005	1	1		18:46	YZ
	1,2-Dibromoethane	BRL	mg/L	1	0.005	-	l		18:46	YZ
	1,2-Dichlorobenzene	BRL	mg/L	1	0.005	1	l	,	18:46	YZ
	1.2-Dichloroethane	BRL	mg/L	li	0.005		l		18:46	YZ
	1,2-Dichloropropane	BRL	mg/L	1	0.005	}	ĺ		18:46	YZ
	1,3,5-Trimethylbenzene	BRL	mg/L	l i	0.005		l		18:46	YZ
	1,3-Dichlorobenzene	BRL	mg/L	1	0.005		1	1	18:46	YZ
	1,3-Dichloropropane	BRL	mg/L	1	0.005		]	02/10		YZ
	1,4-Dichlorobenzene	BRL	mg/L	1	0.005	ì	1	02/10		YZ
	2,2-Dichloropropane	BRL	mg/L	1	0.005		l	02/10		YZ
•	2-Chlorotoluene	BRL	mg/L	l i	0.005	)	1	1	18:46	YZ
	4-Chlorotoluene	BRL	mg/L	1	0.005		l		18:46	YZ
	4-Isopropyltoluene	BRL	mg/L	li	0.005		Ì	l	18:46	YZ
	Benzene	BRL	mg/L	1 1	0.005	1	l		18:46	YZ
	Bromobenzene	BRL	mg/L	1	0.005	i	l	l	18:46	YZ
	Bromochloromethane	BRL	mg/L	1 1	0.005		Į		18:46	YZ
	Bromodichloromethane	BRL	mg/L	1	0.005	İ	l	1	18:46	YZ
	Bromoform	BRL	mg/L	1	0.005	ļ	ļ	f	18:46	YZ
	Bromomethane	BRL	mg/L	1	0.005			l	18:46	YZ
	Carbon Tetrachloride	BRL	mg/L	1	0.005		ŀ		18:46	YZ
	Chlorobenzene	BRL	mg/L	1	0.005		1	l	18:46	YZ
	Chloroethane	BRL	mg/L	1	0.005	ļ.	1		18:46	YZ
	Chloroform	BRL	mg/L	1	0.005			02/10		YZ
	Chloromethane	BRL	mg/L	1 1	0.005	<u> </u>	1		18:46	YZ
	cis-1,2-Dichloroethylene	BRL	mg/L	1	0.005			02/10		YZ
	cis-1,3-Dichloropropene	BRL	mg/L	1	0.005	}	1	l	18:46	YZ
	Dibromochloromethane	BRL	mg/L	1 1	0.005		ı		18:46	YZ
	Dibromomethane	BRL	mg/L	1	0.005	1	1		18:46	YZ
	Dichlorodifluoromethane	BRL	mg/L	li	0.005				18:46	YZ
	Ethylbenzene	BRL	mg/L	1 1	0.005			1	18:46	YZ
	Isopropylbenzene	BRL	mg/L	ĺi	0.005		1	02/10		YZ
	m- & p-Xylenes	BRL	mg/L	1	0.005			02/10		YZ
	MEK (2-Butanone)	BRL	mg/L	Li	0.005			02/10		YZ
	Methylene Chloride	BRL **	mg/L	1	0.005			1	18:46	YZ
	Imonificatio officiale		1	ı .	1 3.000	1	ı	J., . J	. 0.70	





### LABORATORY TEST RESULTS

A&B Job ID 78024

Date: 2/21/2006

CUSTOMER: Siemens Westinghouse - Houston

PROJECT: 02102006 Lathe Demolition & Sand Compo ATTN: Damon Crowther

Customer Sample ID: 02102006 / 1201 Lathe Pit

Job Sample ID: 78024-02

Date Collected:

2/10/2006

Time Collected:

12:01

Sample Matrix: Water

Sample Loc./Other Info:

Test Method	Parameter/Test Description	Result	Units	D.F.	Rpt Limit	Reg Limit	Q	Date	Time	Analyst
SW-846 8260B	Volatile Organic Compounds									
	Naphthalene	BRL	mg/L	1	0.005	j		02/10	18:46	YZ
	n-Butylbenzene	BRL	mg/L	1	0.005	ļ		02/10	18:46	YZ
	n-Propylbenzene	BRL	mg/L	1	0.005			02/10	18:46	YZ
	o-Xylene	BRL	mg/L	1	0.005		1	02/10	18:46	YZ
	sec-Butylbenzene	BRL	mg/L	1	0.005			02/10	18:46	YZ
• •	Styrene	BRL	mg/L	1	0.005			02/10	18:46	YZ
	t-Butylbenzene	BRL	mg/L	1	0.005			02/10	18:46	YZ
	Tetrachloroethylene	BRL	mg/L	1	0.005	İ		02/10	18:46	YZ
	Toluene	BRL	mg/L	1	0.005			02/10	18:46	YZ
1	trans-1,2-Dichloroethylene	BRL	mg/L	1	0.005			02/10	18:46	YZ
	trans-1,3-Dichloropropene	BRL	mg/L	1	0.005			02/10	18:46	YZ
	Trichloroethylene	BRL	mg/L	1	0.005			02/10	18:46	YZ
	Trichlorofluoromethane	BRL	mg/L	1	0.005			02/10	18:46	YZ
	Vinyl Chloride	BRL	mg/L	1	0.002		\	02/10	18:46	YZ
	2-Chloroethylvinyl Ether	BRL	mg/L	1	0.005			02/10	18:46	YZ



### LABORATORY TEST RESULTS

A&B Job ID 78024

Date: 2/21/2006

CUSTOMER: Siemens Westinghouse - Houston

PROJECT: 02102006 Lathe Demolition & Sand Compo ATTN: Damon Crowther

Customer Sample ID: 02102006 / 0800 Sand Comp

Job Sample ID: 78024-03

Date Collected:

2/10/2006

Time Collected:

8:00

Sample Matrix: Sand

Sample Loc./Other Info:

Test Method	Parameter/Test Description	Result	Units	D.F.	Rpt Limit	Reg Limit	Q	Date	Time	Analyst
SW-846 6010B	TCLP Metals									
	Antimony	BRL	mg/L	1	0.1	1		02/14	15:35	SEC
	Arsenic	BRL	mg/L	1	0.1	1.8		02/14	15:35	SEC
	Barium	BRL	mg/L	1	0.1	100	1	02/14	15:35	SEC
•	Beryllium	BRL	mg/L	1	0.08	0.08	l	02/14	15:35	SEC
* •	Cadmium	BRL	mg/L	1	0.1	0.5		02/14	15:35	SEC
	Chromium	BRL	mg/L	1	0.1	5		02/14	15:35	SEC
Articles	Lead	BRL	mg/L	1	0.1	1.5		02/14	15:35	SEC
	Nickel	0.21	mg/L	1	0.1	70	١ ١	02/14	15:35	SEC
	Selenium	BRL	mg/L	1	0.1	1		02/14	15:35	SEC
	Silver	BRL	mg/L	1	0.1	5		02/14	15:35	SEC
SW-846 7470A	TCLP Mercury									
	Mercury	BRL	mg/L	j 1	0.002	0.2	İ	02/14	15:45	SEC



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A & B Environmental Services, Inc. 10100 East Freeway, Suite 100 Houston, Texas 77029

### SAMPLE SURROGATE RECOVERY REPORT

Report Date: 2/21/2006

Job ID: 78024

Parameter	Method	CAS#	Spike Added	Spike Result	D.F.	%Rec	% Rec CLIMIT	Analysis DateTime	Analyst	Lab ID	Q
Tetrachloro-m-xylene (Surrogate)	EPA 608	877-09-8	100	104	2	104	12-106	2/15/06 8:01	Ssrinivasar	78024-01	П
Decachlorobiphenyl (Surrogate)	EPA 608	2051-24-3	100	87	2	87	27-105			78024-01	11
Dibromofluoromethane (Surrogate)	SW-846 8260B	1868-53-7	100	101.8	1	102	70-130	2/10/06 18:46	Yzhang	78024-02	
Toluene-d8 (Surrogate)	SW-846 8260B	2037-26-5	100	96.7	1	96.7	70-130			78024-02	
p-Bromofluorobenzene (Surrogate)	SW-846 8260B	460-00-4	100	94.7	1	94.7	70-130			78024-02	
1,2-Dichloroethane-d4 (Surrogate)	SW-846 8260B	107-06-2	100	115.6	1	116	70-130			78024-02	

# EPAHO107002134



# A & B Environmental Services, Inc. 10100 East Freeway Houston, Texas 77029

# **QUALITY CONTROL CERTIFICATE**

Report Date: 2/21/2006

White Land

Job ID: 78024

QCType: LCS and LCSD		Spike	LCS	LCSD	LCS	LCSD		%RPD	%Rec			
Parameter	Method	Added	Result	Result	Rec %	Rec %	RPD	CLimits	CLimits	QCBatchID		Qual
Antimony	SW-846 6010B	1	0.96	0.99	96	99	3.1	<25	80-120	Q021406mt	:	
Arsenic	SW-846 6010B	1	0.99	1.02	99	102	3.0	<25	80-120	Q021406mt	·	
Barium	SW-846 6010B	1	0.94	0.97	94	97	3.1	<25	80-120	Q021406mt		
Beryllium	SW-846 6010B	1	0.96	0.98	96	98	2.1	<25	80-120	Q021406mt		1
Cadmium	SW-846 6010B	1	0.96	0.99	96	99	3.1	<25	80-120	Q021406mt		
Chromium	SW-846 6010B	1	0.96	0.99	96	99	3.1	<25	80-120	Q021406mt		
Lead	SW-846 6010B	1	0.97	1.00	97	100	3.0	<25	80-120	Q021406mt		
Nickel	SW-846 6010B	1	0.94	0.98	94	98	4.2	<25	80-120	Q021406mt		1
Selenium	SW-846 6010B	1	1.02	1.04	102	104	1.9	<25	80-120	Q021406mt		
Silver	SW-846 6010B	1	1.01	1.04	101	104	2.9	<25	80-120	Q021406mt		1
Mercury	SW-846 7470A	0.005	0.005		100			<35	71-143	Q021406hgt	٠.,	
Aroclor - 1016	EPA 608	2	1.509	1.534	75.5	77	1.6	<35	40-126	q021506PCB		
Aroclor - 1260	EPA 608	2	1.542	1.561	77.1	78	1.2	<35	49-124	q021506PCB		1
1,1-Dichloroethylene	EPA 624	0.02	0.0192	0.0215	96	108	11.3	<25	52-138	q021006voc2e		
Benzene	EPA 624	0.02	0.0199	0.0215	99.5	108	7.7	<25	71-128	q021006voc2e		
Trichloroethylene	EPA 624	0.02	0.0201	0.0218	101	109	8.1	<25	76-131	q021006voc2e	a. W	
Toluene	EPA 624	0.02	0.0198	0.0219	99	110	10.1	<25	72-125	q021006voc2e		
Chlorobenzene	EPA 624	0.02	0.0196	0.0213	98	107	8.3	<25	68-133	q021006voc2e		<u> </u>

QCType: MS and MSD													
Parameter	Method	QCSapl Result	Spike Added	MS Result	MSD Result	MS %Rec	MSD %Rec	RPD	RPD CLimits	%Rec CLimits	QCBatchID	QC SampleID	Qual
Antimony	SW-846 6010B	BRL	2	1.97	1.92	99	96	2.6	<25	50-125	Q021406mt	77990-01	П

<sup>\*\*</sup> BRL-Below Reporting Limit



### A & B Environmental Services, Inc. 10100 East Freeway Houston, Texas 77029

# **QUALITY CONTROL CERTIFICATE**

Report Date: 2/21/2006

Job ID: 78024

QCType: MS and MSD													
Parameter	Method	QCSapl Result	Spike Added	MS Result	MSD Result	MS %Rec	MSD %Rec	RPD	RPD CLimits	%Rec CLimits	QCBatchID	QC SampleID	Qual
Arsenic	SW-846 6010B	BRL	2	2.00	1.96	100	98	2.0	<25	50-125	Q021406mt	77990-01	
Barium	SW-846 6010B	0.59	2	2.48	2,43	95	92	2.7	<25	50-125	Q021406mt	77990-01	1 1
Beryllium	SW-846 6010B	BRL	2	1.96	1.91	98	96	2.6	<25	50-125	Q021406mt	77990-01	
Cadmium	SW-846 6010B	BRL	2	1.96	1.92	98	96	2.1	<25	50-125	Q021406mt	77990-01	1 1
Chromium	SW-846 6010B	0.14	2	2.08	2.04	97	95	2.1	<25	50-125	Q021406mt	77990-01	1 1
Lead	SW-846 6010B	BRL	2	1.98	1.94	99	97	2.0	<25	50-125	Q021406mt	77990-01	1 1
Nickel	SW-846 6010B	BRL	2	1.96	1.92	98	96	2.1	<25	50-125	Q021406mt	77990-01	
Selenium	SW-846 6010B	BRL	2	1.98	1.94	99	97	2.0	<25	50-125	Q021406mt	77990-01	
Silver	SW-846 6010B	BRL	2	2.12	2.07	106	104	2.4	<25	50-125	Q021406mt	77990-01	]
Mercury	SW-846 7470A	BRL	0.01	0.0085	0.0087	85	87	2.3	<35	61-175	Q021406hgt	77990-01	

QCType: Method Blank								
Parameter	Method	CAS#	Result	Units	D.F.	Rpt Limit	QCBatch ID	
Antimony	SW-846 6010B	7440-36-0	BRL	mg/L	1	0.1	Q021406mt	TCLP Metals
Arsenic	SW-846 6010B	7440-38-2	BRL	mg/L	1	0.1	Q021406mt	TCLP Metals
Barium	SW-846 6010B	444-39-3	BRL	mg/L	1	0.1	Q021406mt	TCLP Metals
Beryllium	SW-846 6010B	7440-41-7	BRL	mg/L	1	80.0	Q021406mt	TCLP Metals
Cadmium	SW-846 6010B	7440-43-9	BRL	mg/L	1	0.1	Q021406mt	TCLP Metais
Chromium	SW-846 6010B	7440-47-3	BRL.	mg/L	1	0.1	Q021406mt	TCLP Metals
Lead	SW-846 6010B	7439-92-1	BRL	mg/L	1	0.1	Q021406mt	TCLP Metals
Nickel	SW-846 6010B	7440-02-0	BRL	mg/L	1	0.1	Q021406mt	TCLP Metals
Selenium	SW-846 6010B	7782-49-2	BRL	mg/L	1	0.1	Q021406mt	TCLP Metals
Silver	SW-846 6010B	7440-22-4	BRL	mg/L	1	0.1	Q021406mt	TCLP Metals
Mercury.	SW-846 7470A	7439-97-6	BRL	mg/L	1	0.002	Q021406hgt	TCLP Mercury
Aroclor - 1016	EPA 608	12674-11-2	BRL	mg/L	1	0.005	q021506PCB	Polychlorinated Biphenyls
Aroclor - 1221	EPA 608	11104-28-2	BRL	mg/L	1 1	0.01	q021506PCB	Polychlorinated Biphenyls

<sup>\*\*</sup> BRL-Below Reporting Limit

1 - 13:35

Page 2 of 4



### A & B Environmental Services, Inc. 10100 East Freeway Houston, Texas 77029

# **QUALITY CONTROL CERTIFICATE**

Report Date: 2/21/2006

Job ID: 78024

	QCType: Method Blank							•	in the second second second second second second second second second second second second second second second	
. [	Parameter	Method	CAS#	Result	Units	D.F.	Rpt Limit	QCBatch ID		Qual
	Aroclor - 1232	EPA 608	11141-16-5	BRL	mg/L	1	0.005	q021506PCB	Polychlorinated Biphenyls	
	Aroclor - 1242	EPA 608	53469-21-9	BRL	mg/L	1	0.005	q021506PCB	Polychlorinated Biphenyls	1 1
	Aroclor - 1248	EPA 608	12672-29-6	BRL	mg/L	1	0.005	q021506PCB	Polychlorinated Biphenyls	
	Arocior - 1254	EPA 608	11097-69-1	BRL	mg/L	1	0.005	q021506PCB	Polychlorinated Biphenyls	1 1
1 1::	Aroclor - 1260	EPA 608	11096-82-5	BRL	mg/L	1	0.005	q021506PCB	Polychlorinated Biphenyls	
	Acrylonitrile	EPA 624	107-13-1	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	1
	Benzene	EPA 624	71-43-2	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
	Bromodichloromethane	EPA 624	75-27-4	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
	Bromoform	EPA 624	75-25-2	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
	Bromomethane	EPA 624	74-83-9	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	1 1
:	Carbon Tetrachloride	EPA 624	56-23-5	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
karanais.	Chlorobenzene	EPA 624	108-90-7	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
eils thing	Chloroethane	EPA 624	75-00-3	BRL	mg/L	1.	0.005	q021006voc2e	Volatile Organic Compounds	
	Chloroform	EPA 624	67-66-3	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	1
	Chloromethane	EPA 624	74-83-7	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
	Dibromochloromethane	EPA 624	124-48-1	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
	1,3-Dichlorobenzene	EPA 624	541-73-1	BRL	mg/L	1 -	0.005	q021006voc2e	Volatile Organic Compounds	
	1,4-Dichlorobenzene	EPA 624	106-46-7	BRL	mg/L	- 1	0.005	q021006voc2e	Volatile Organic Compounds	
.	1,2-Dichlorobenzene	EPA 624	95-50-1	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	1.
	1,1-Dichloroethane	EPA 624	75-34-3	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
	1,2-Dichloroethane	EPA 624	107-06-2	BRL	mg/L .	1	0.005	q021006voc2e	Volatile Organic Compounds	
	1,1-Dichloroethylene	EPA 624	75-35-4	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
	trans-1,2-Dichloroethylene	EPA 624	156-60-5	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
	1,2-Dichloropropane	EPA 624	78-87 <b>-</b> 5	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	1 1
1 1 1 1 1 1 1 1	2-Chloroethylvinyl Ether	EPA 624	100-75-8	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
i - 1.250,1	cis-1,3-Dichloropropene	EPA 624	10061-01-5	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	
	trans-1,3-Dichloropropene	EPA 624	10061-02-6	BRL	mg/L	1	0.005	q021006voc2e	Volatile Organic Compounds	

<sup>\*\*</sup> BRL-Below Reporting Limit







Trichlorofluoromethane

Vinyl Chloride

A & B Environmental Services, Inc. 10100 East Freeway Houston, Texas 77029

EPA 624

**EPA 624** 

### **QUALITY CONTROL CERTIFICATE**

Report Date: 2/21/2006

Volatile Organic Compounds

Volatile Organic Compounds

Job ID: 78024

BRL

BRL

75-69-4

75-01-4

QCType: Method Blank Method CAS# Result Units D.F. **Rpt Limit** QCBatch ID **Parameter** Qual Ethylbenzene EPA 624 100-41-4 BRL mg/L 1 0.005 q021006voc2e Volatile Organic Compounds Methylene Chloride **EPA 624** 75-09-2 BRL mg/L 1 0.005 q021006voc2e Volatile Organic Compounds 1 0.005 1,1,2,2-Tetrachloroethane **EPA 624** 79-34-5 BRL mg/L q021006voc2e Volatile Organic Compounds Tetrachloroethylene **EPA 624** 127-18-4 BRL mg/L 1 0.005 q021006voc2e Volatile Organic Compounds Toluene EPA 624 108-88-3 BRL 1 0.005 q021006voc2e mg/L Volatile Organic Compounds BRL 1 0.005 1,1,1-Trichloroethane **EPA 624** 71-55-6 mg/L q021006voc2e Volatile Organic Compounds 1,1,2-Trichloroethane BRL 1 0.005 **EPA 624** 79-00-5 mg/L q021006voc2e Volatile Organic Compounds Trichloroethylene **EPA 624** 79-01-6 BRL 1 0.005 mg/L q021006voc2e Volatile Organic Compounds

mg/L

mg/L

1

0.005

0.002

q021006voc2e

q021006voc2e

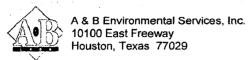
Chain of Custody

of

Page

A & B Labs

EPAHO107002138



**QUALITY CONTROL CERTIFICATE** 

Report Date: 12/5/2005

Job ID: 76424

QCType: LCS and LCSD	· · · · · · · · · · · · · · · · · · ·								<u></u>		
Parameter	Method	Spike Added	LCS Result	LCSD Result	LCS Rec %	LCSD Rec %	RPD	%RPD CLimits	%Rec CLimits	QCBatchID	Qual
Arsenic	SW-846 6010B	1	1.00	1.03	100	103	3.0	<25	80-120	Q120205mt	
Barium	SW-846 6010B	1 . 1	0.88	0.91	88	91	3.4	<25	80-120	Q120205mt	{ · } ·
Cadmium	SW-846 6010B	1	0.91	0.94	91	94	3.2	<25	80-120	Q120205mt	1
Chromium	SW-846 6010B	1	0.89	0.92	89	92	3.3	<25	80-120	Q120205mt	
Lead	SW-846 6010B	1	0.92	0.94	92	94	2.2	<25	80-120	Q120205mt	
Selenium	SW-846 6010B	1	1.01	1.06	101	.106	4.8	<25	80-120	Q120205mt	
Silver	SW-846 6010B	1	0.94	0.97	94	97	3.1	<25	80-120	Q120205mt	
Mercury	SW-846 7470A	0.005	0.0055		110			<35	71-143	Q120205HGT	

QCType: MS and MSD		QCSapi	Spike	MS	MSD	MS	MSD		RPD	%Rec		QC	
Parameter	Method	Result	Added	Result	Result	%Rec	%Rec	RPD	CLimits	CLimits	QCBatchID	SampleID	Qual
Arsenic	SW-846 6010B	BRL	2	2.03	2.04	102	102	0.5	<30	45-138	Q120205mt	76384-01	
Barium	SW-846 6010B	BRL	2	1.82	1.82	91	91	0.0	<25	39-135	Q120205mt	76384-01	1 1
Cadmium	SW-846 6010B	BRL	2	1.81	1.81	91	91	0.0	<25	56-125	Q120205mt	76384-01	1 1
Chromium	SW-846 6010B	BRL	2	1.80	1.81	90	91	0.6	<25	52-125	Q120205mt	76384-01	1 1
Lead	SW-846 6010B	BRL	.2	1.79	1.80	90	90	0.6	<25	55-125	Q120205mt	76384-01	1 1
Selenium	SW-846 6010B	BRL	2	2.31	2.32	116	116	0.4	<25	18-137	Q120205mt	76384-01	
Silver	SW-846 6010B	BRL	2	1.91	1.94	96	97	1.6	<25	26-148	Q120205mt	76384-01	
Mercury	SW-846 7470A	BRL	0.01	0.0103	0.0105	103	105	1.9	<35	61-175	Q120205HGT	76424-01	1 1

QCType: Method Blank									}
Parameter	Method	CAS#	Result	Units	D.F.	Rpt Limit	QCBatch ID		Qual
Arsenic	SW-846 6010B	7440-38-2	BRL	mg/L	1	0.1	Q120205mt	TCLP Metals	T
Barium	SW-846 6010B	444-39-3	BRL	mg/L	1	0.1	Q120205mt	TCLP Metals	1

<sup>\*\*</sup> BRL-Below Reporting Limit





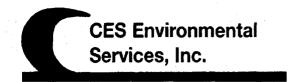
A & B Environmental Services, Inc. 10100 East Freeway Houston, Texas 77029

# **QUALITY CONTROL CERTIFICATE**

Report Date: 12/5/2005

Job ID: 76424

QCType: Method Blank									
Parameter	Method	CAS#	Result	Units	D.F.	Rpt Limit	QCBatch ID		Qual
Cadmium	SW-846 6010B	7440-43-9	BRL	mg/L	1	0.1	Q120205mt	TCLP Metals	
Chromium	SW-846 6010B	7440-47-3	BRL	mg/L	1	0.1	Q120205mt	TCLP Metals	
Lead	SW-846 6010B	7439-92-1	BRL	mg/L	1	0.1	Q120205mt	TCLP Metals	
Selenium	SW-846 6010B	7782-49-2	BRL	mg/L	1	0.5	Q120205mt	TCLP Metals	
Silver	SW-846 6010B	7440-22-4	BRL	mg/L	1	0.1	Q120205mt	TCLP Metals	1 1
Mercury	SW-846 7470A	7439-97-6	BRL	mg/L	1	0.002	Q120205HGT	TCLP Mercury	



# Waste Pre-Acceptance/Approval Letter

Date 5/23/2008

Dear Robbie Preston

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2378

Expiration Date 9/27/2008

Generator: Siemens Westinghouse

**Address:** 5730 Clinton Drive

Houston, TX 77020

**Waste Information** 

Name of Waste: Sandblast sand TCEQ Waste Code #: 9993892

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Sand from sandblasting operations

Color: tan

Odor: none

pH: neutral

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road, Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676

<a href="http://www.cesenvironmental.com">http://www.cesenvironmental.com</a>

TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1:	Generator I	<u>nformation</u>						
Company:	Siemens Wo	estinghouse						_
Address:	5730 Clinto	n Drive						
City:	Houston		State:	TX	Zip:		77020	
Contact:	Steve Fusiei	er		Title:				
Phone Num	ber:	713.678.6119		Fax Number:	713.678.3	629		•
24/hr Phon	e Number:							
US EPA ID N	lo:	TXD001873884						
State ID No	:			SIC Code:				
		•						
SECTION 2:	Billing Infor	mation -	Same as Above					
Company:	Preston Env	ironmental						
Address:	10100 Chap	el Hill Drive						
City:	Denham Sp	rings	State:	LA	Zip:		70727	
Contact:	Robby Mers	iovsky		Title:				
<b>Phone Num</b>	ber:	713.882.7740		Fax Number:	225.664.8	655		
SECTION 3:	General Des	cription of the Wa	ste					
Name of Wa	aste:	Sandblast sand						
<b>Detailed De</b>	scription of I	rocess Generating	Waste:	Sand from sai	ndblasting o	perations		
<b>Physical Sta</b>	te:	Liquid	Sludge		Powder			
	V	Solid	Filter Ca	ke 🗌	Combinat	ion		
Color:	tan	·	<u> </u>	Odor:	none			
Specific Gra	vity (water=	1): 2-3	2.5	_	Density:	16-18 lb	s/gal	
				_				
Does this m	aterial conta	in any total pheno	lic compounds?	Yes	· 🗸	No		
					_	_		
Does this m	aterial conta	in any para substi	tuted phenolic cor	npounds?		Yes 🗸 N	0	
						_		
	-	he benzene waste	-	-	-	-	Yes	✓ No
Answer "Yes	s" if your was	te contains benzer	ne <b>AND</b> if the SIC o	ode from your fa	cility is one	of the followin	g:	
2812	2813	2816	2819 283	21 2822	2823	3 2824	2833	2834
2835	2836		2842 284				2865	2869
2873	2874	2876	2879 289	91 2892	2893	2896	2899	2911
3312	4953	4959	9511					
٠								
Layers:	✓ Sing	le-phase	Multi-phase				÷	
Container T	ype: 🗹	Drum 🔲 To	te 🔲 Truck	Other (explain	n)			
Frequency:	■ Weekly	☐ Monthly ☑	Yearly  One	-Time				
Quantity:		•	40					

SECTION 5: Safety Rela	ted Data
If the handling of this w	aste requires the use of special protective equipment, please explain.
none	·
CECTION C. Assert de de	and the Bullion and
SECTION 6: Attached S	
approval package.	s, data and/or analysis attached to this form as part of the waste
approvar package.	analytical
SECTION 7: Incompatib	
Please list ALL incompat	ibilities (if any):
None Known	
SECTION 8: Generator's	Knowledge Documentation
	ne hazardous waste characteristics, listed below, WAS NOT PERFORMED
	g generator knowledge:
	<b>6 6 6 6 6 7 6 6 7 6 7 6 7 8 8 9 8 9 8 9 8 9 9 8 9 9 9 9 9 9 9 9 9 9</b>
TCLP Metals:	
TCLP Volatiles:	
TCLP Semi-Volatiles:	
Reactivity:	X
Corrosivity:	X
Ignitability:	X
SECTION S	
SECTION 9: Generator's	
The information contain	above and attached description is complete and accurate to the best of
mu knowledge and abili	ty to determine that no deliberate or willful omissions of compostion
nroperties exist and tha	t all known or suspected hazards have been disclosed. I certify that the
materials tested are ren	resentative of all materials described by this description of the senerator
materials tested die rep	No Aldred 101 Jones
Authorized Signature:	Date: 5/12/08
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Printed Name/Title:	Cobert WERSIDVSky
·	
CES USE ONLY (DO NOT	WRITE IN THIS SPACE)
Compliance Officer:	
Date:	Approved Rejected
Approval Number:	
E .	

SECTION 10: Waste Receipt Classification Under 40 CFR 437		
Is this material a wastewater or wastewater sludge?	☐ YES	✓ NO
If 'Yes', complete this section.		
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY,	GO TO THE NEXT	PAGE.
Metals Subcategory: Subpart A		
Spent electroplating baths and/or sludges		
☐ Metal finishing rinse water and sludges		
Chromate wastes		
Air pollution control blow down water and sludges		
☐ Spent anodizing solutions		
Incineration wastewaters		
Waste liquid mercury		
Cyanide-containing wastes greater than 136 mg/l		
Waste acids and bases with or without metals		
Cleaning, rinsing, and surface preparation solutions from electroplating or	phosphating opera	ations
☐ Vibratory deburring wastewater		
Alkaline and acid solutions used to clean metal parts or equipment		
Oile Subsectioners . Subsect D		
Oils Subcategory: Subpart B Used oils		
Oil-water emulsions or mixtures		
Lubricants		
Coolants		
<ul> <li>☐ Contaminated groundwater clean-up from petroleum sources</li> <li>☐ Used petroleum products</li> </ul>		
Oil spill clean-up		
Bilge water		
Rinse/wash waters from petroleum sources		
Interceptor wastes		
Off-specification fuels		
Underground storage remediation waste		
☐ Tank clean-out from petroleum or oily sources		
Non-contact used glycols		
Aqueous and oil mixtures from parts cleaning operations		
Wastewater from oil bearing paint washes		
Organics Subcategory: Subpart C		
Landfill leachate		
Contaminated groundwater clean-up from non-petroleum sources		
Solvent-bearing wastes		
Off-specification organic product		
☐ Still bottoms		
Byproduct waste glycol		
Wastewater from paint washes		
Wastewater from adhesives and/or epoxies formulation		
Wastewater from organic chemical product operations		
Tank clean-out from organic, non-petroleum sources		

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	,
	☐ Metals Subcategory
	☐ Oils Subcategory
	☐ Organics Subcategory

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 9/27/2007

Dear Dennis Van Wye

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2379

Producer: Arkema, Inc.

Address: 2231 Haden Road

Houston, TX 77015

### Material / Product Information

Name of Material / Product Oronite Tetramer

**Container Type:** 

**Detailed Description of Process Generating or Producing the Material / Product:** 

pH: na

Oronite Tetramer product from bottom of distillation column.

Color: gold Odor: slight sulfur

Physical State:

Incompatibilities: Oxidizers

Safety Related Data/Special Handling:

Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900



SECTION 1: Gener	ator Information			
Company:	Arkema Inc			
Address:	2231 Haden Rd			
City, State, Zip:	Houston, TX 770	)15		
Contact:	Brantley Mooney	ham	Title:	Regional Purchasing Manager
Phone No:	713-450-6742		Fax No:	713-450-6701
24/hr Phone:			<del></del>	
U.S. EPA I.D. No:	JA		<del></del>	
State I.D.	NA		SIC Code:	NA
	1041		<del></del>	7 7 7 3
SECTION 2: Billing	g Information – 🏻	Same as Above		
Company:				
Address:				AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I
City, State, Zip:				
Contact:		Title:		
Phone No:		Fax No:	·	<del> </del>
I ROLLE INO.	<u> </u>			·
nomrova o		Product		
SECTION 3: Gener		he <del>Waste</del> -		W <sup>*</sup>
Produc	T			
Name of Waste: Oro				
Detailed Description	of Process Genera	iting Waste: Oronite Tetra	mer product from	bottom of distillation column
Obvision States	⊠ Liouid	☐ Sludge	☐ Powder	
Physical State:	∠ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid     ✓ Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid       Liquid	<u> </u>	===	
	☐ Solid	Filter Cake	Combination	
				医脓性 医多种 医多种管膜炎
Color: gold		Odor: slight sulfur		
Specific Gravity (wa	iter=1): <u>0.8</u>	Density: 6.67 lbs/gal		
		· · · · · · · · · · · · · · · · · · ·		
Layers:	Single-phase	e 🔲 Multi-phase		
Layers.	Manage-buase	with phase		
			KZ m .	
Container Type:	∐ Drum	Tote	Truck	Other (explain)
Container Size:	·	en en en en en en en en en en en en en e	5500 gal	
engin.			1. A. A. A. A. A. A. A. A. A. A. A. A. A.	
<b></b>	<b>5371-1-</b>	No Alalas	<b>П</b>	N
Frequency:	Weekly	<b>Monthly</b>	Quarterly	⊠ Yearly
Number of Units (co	ontainers): <u>3</u>	Other:		
Texas State Waste C	Code No: -F	Recycle Produit	HA 🗼	
Proper U.S. DOT SI	ninning Name:	Non DOT/Non RC	RA Regulated mate	eria <b>l</b>
Class: N/A	UN/	NA: NA	PG:	A RQ: NA
Tall Jakes				
Flash Point	pH NA	Reactive Sulfides	Reactive Cy	vanides Solids
>200	PI NA	mg/l	M/ mg/l	
Oil&Grease	TOC	Zinc	Copper	Nickel
of A mall	NA mo/l	NA mg/l	NA ma/I	A A mg/l

### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Chevron Oronite Pentamer Bottoms (C13-C18)	100	%
:		

### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Standard  $\ensuremath{\mathsf{PPE}}$ 

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. Chevron product specifications

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

none Oxidizens

### **SECTION 8: Generator's Knowledge Documentation**

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u>x</u>
TCLP Volatiles:	x
TCLP Semi-Volatiles:	<u>x</u>
Reactivity:	<u>X</u>
Corrosivity:	<u>X</u>
Ignitability:	<u>x</u>

### **SECTION 9: Generator's Certification**

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature:	None needed	- product	Date: <u>9-</u> 27-07
Printed Name/Title:	No signature	cail for	podact
		v	<del></del>

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
$\circ$ $\circ$ $\circ$	Process Facility Information:  Den Alema \$ 0.10 / lb
	Pay Arkema \$ 0.10/16 Noed Weight tided. QA/QC & redirect to Allied
Approval Number: 2379	De trochem dergesphan 1.50/gel
	Charge to Allied.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Materi	al Producer Information	<del></del>				
Company :	Arkema, Inc.					
Address :	2231 Haden Road 22	31 Haden Road				
City, State, Zip :	Houston TX 77015					
Contact :	Dennis Van Wye		Titl	e:		
Phone No :	(713) 450-6770		Fax	·:		
24 / HR Phone :						
U.S EPA I.D No :	N/A					
State I.D :	N/A		SIC	Code N/A		
SECTION 2: Billing	Information					
Company :	Arkema, Inc.					
Address :	2231 Haden Road 22	31 Haden Road				
City, State, Zip :	Houston TX 77015					
Contact :	Dennis Van Wye		Title	e :		
Phone No :	(713) 450-6770		Fax	:		
SECTION 3: Gener	al Description of the Ma	terial / Product				
	I / Product : Oronite Te	<del></del> ,				
			ainn dha Bhatanial ( l	N		
•	tion of the Process G		cing the Material / i	Product.		
Oronite Letramer	product from bottom o	distillation column.			gart galliana	4
Physical State:	<b>∠</b> Liquid	Sludge	Powder			
	Solid	Filter Cake	Combin	ation		
Color:		gold	Odor:	<del>.</del>	slight sul	fur
Specific Gravity	(Water=1):	.8	Density :	· ·	6.67	lbs / gal
Layers:	Single-Phas	Multi-Pha	se			
Container Type	: Drum	Tote <b>✓</b>	Truck Oth	er (explain)		
Container Size:	··		<u> </u>			
Number Of Units	s: <u> </u>					· · · · · · · · · · · · · · · · · · ·
Proper U.S. DOT	Shipping Name :		Non-RCRA/Non	-DOT Regulate	d Material	·
Class: na	UN/N	IA: na	PG:_	na		RQ: na
Flash Poi >200	nt pi					Solids 0 %
Oil and Gre	ease TC		Zinc na mg/l	Copper	r ma/l	Nickel na mg/l

COMPONENTS TABLE	Concentration U	nits
The material / product consists of the following materials	2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	r%
Chevron Oronite Pentamer Bottoms (C13-C18)		%
Chevioli Oronite Pentaniei Bottoms (C13-C10)	100	70
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
ECTION 5: Safety Related Data		
f the handling of this material / product requires the use of special protective standard PPE	e equipment, please explain.	
SECTION 6: Attached Supporting Documents		
ist all documents, notes, data, and/or analysis attached to this form as part. Chevron product specifications	of the material / product profile.	
SECTION 7: Incompatibilities		
Please list all incompatibilities (if any):		
Oxidizers		
ECTION 8: Material Producer's Certification		
The information contained herein is based on generator knowledge and/ above and attached description is complete and accurate to the best of my k deliberate or willful omissions of composition properties exist and that all kr disclosed. I certify that the materials tested are representative of all material  Authorized Signature:	nowledge and ability to determine that n nown or suspected hazards have been	
Printed Name / Title: not required /		
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Special Pricing / Analytical Info:	
Compliance Officer: Prabhakar Thangudu habblun Marth		
Date: 9/27/2007 Status: Approved Rejected	Recommended Treatment:	
Approval Number: 2379		

States			and the second
SE	CTION 10: Waste Receipt Classification Under 40 CFR 43	37	chet.
		<del></del>	- TOTAL CO.
Is 1	this material a wastewater or wastewater sludge?   YES	⊠ NO	
A.I.	A STATE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE		Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Continued and Co
īf'	Yes', complete this section.	•	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
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ΡI	EASE CHECK THE APPROPRIATE BOX. IF NO APPRO	PRIATE CATEGORY GO TO TI	JE NEVT DACE
	LASE CHECK THE ATTROT MATE BOA, IT TO ATTRO	MAIL CAILOOKI, GO TO 11	IE NEAT TAGE.
Moto	als Subcategory: Subpart A		
MICEU	is Subcutegory. Subput 11		
П	Spent electroplating baths and/or sludges		
H	Metal finishing rinse water and sludges		
H	Chromate wastes		•
H			
범	Air pollution control blow down water and sludges		
$\forall$	Spent anodizing solutions		
H	Incineration wastewaters		
닖	Waste liquid mercury		
닏	Cyanide-containing wastes greater than 136 mg/l		
Ц	Waste acids and bases with or without metals		
Ц	Cleaning, rinsing, and surface preparation solutions from elec	troplating or phosphating operation	1S
Ш	Vibratory deburring wastewater		
Ш	Alkaline and acid solutions used to clean metal parts or equip	ment	
<u>Oils</u>	Subcategory: Subpart B	•	
	Used oils		
	Oil-water emulsions or mixtures		
	Lubricants		
	Coolants		
	Contaminated groundwater clean-up from petroleum sources		the grade to
	Used petroleum products		
	Oil spill clean-up		
	Bilge water		
П	Rinse/wash waters from petroleum sources		
П	Interceptor wastes		
Ħ	Off-specification fuels		
Ħ.	Underground storage remediation waste		
Ħ.	Tank clean-out from petroleum or oily sources		
Ħ	Non-contact used glycols		
Ħ	Aqueous and oil mixtures from parts cleaning operations		
Ħ	Wastewater from oil bearing paint washes		1000 mm 表示或条
ш	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		
Ora	anics Subcategory: Subpart C		
O/E	mus succuesory. Suopuri C	•	
	Landfill leachate		
H	Contaminated groundwater clean-up from non-petroleum sou	roos	
$\vdash$	Solvent-bearing wastes	CCS	
H			
님	Off-specification organic product		
님	Still bottoms		
님	Byproduct waste glycol		
님	Wastewater from paint washes		
닏	Wastewater from adhesives and/or epoxies formulation		· · · · · · · · · · · · · · · · · · ·
Щ	Wastewater from organic chemical product operations		
	Tank clean-out from organic, non-petroleum sources		

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

Oils Subcategory

Organics Subcategory

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

### Propylene Pentamer

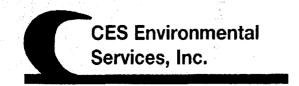
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Physical Properties	, Digital and the	is product	
Carbon Distribution, wt-%	= nolonger	Specific Gravity	0.7975
<del>&lt; 014</del>		15.6°/15.6 °C (60°/60 °F)	
C15		API Gravity	45.9
C16/17		,	
> C18	12.2	Density, kg/l	0.7972
	±	Density, lb/gal	6.642
•		Sulfur, ppm	2.8 Max
Distillation, °C		Peroxides, ppm	28 Max
Initial Boiling Point	226	Bromine Number, G/100G	78
5%		Olefins, wt-%	97.3
50%		Aromatics, wt-%	2.7
90%	248	Paraffin, wt-%	
95%	258	Flash Point (PMCC), °C (°F).	
End Point	278	Saybolt Color	16
	•	Water, ppm	
		Appearance	Clear and
		Bright	
Handling Ambient tempe	eratures of 15.6 °C (	60 °F) for handling and long-ter	rm storage are
recommende	ed. Ordinary preca	utions for handling concentra-	ted chemicals

### **Applications**

- Propylene Pentamer is used in applications similar to propylene tetramer where a longer chain is required to improve solubility and other physical and chemical properties of various compounds, such as, alkylates.
- Propylene Tetramer Tetramer is used in the manufacturing of several componds, such as, branched alky benzenes, phenates, sulfonates and other alkylates
- Lubricants addictives

should be observed.

Entendrise Products Jackson



# **Waste Pre-Acceptance/Approval Letter**

Date 9/28/2007

Dear Stephen Craig

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2381

Generator: Enterprise products Operating LP-Jacintoport Facility

Address: 15602 Jacintoport Rd

Houston, TX 77015

### **Waste Information**

Name of Waste: Used oil

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Used oil from machine operations

Color: dark

Odor: hydrocarbon

pH: neutral

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gen	erator Information						
Company:		cts Operating LLC (Oil	Tanking	Facility)			
Address:	15602 Jacintopor						
City, State, Zip:	Houston, TX 770	015					
Contact:	Stephen J. Craig			Tide:		vironmental Scienti	st
Phone No:	281-385-4396			Fax No:	281-385	4532	
24/hr Phone:	713-320-4591						
U.S. EPA I.D. No:	TX000032821						
State I.D.	86196		<del></del>	SIC Code:	NA		Mary Mary Mary Mary 18 18 18 18 18 18 18 18 18 18 18 18 18
SECTION 2: Billi	ng Information – 🔲	Same as Above					
Company:		Operating LLC (Oil T	anking F	acility)			
Address:	P.O. Box 573						
City, State, Zip:	Mont Belvieu, TX	77580-0573					
Contact:	Accounts Payable	Titk	e:				
Phone No:	281-385-4200	Fax	No:				
			-			-	
SECTION 3: Gen	eral Description of the	he Waste					
Name of Waste: U Detailed Description		ting Waste: Used oil	from mac	chine operation	<u>18</u>		
Physical State:	∠ Liquid	☐ Sludge		Powder			
•	☐ Solid	Filter Cake	$\overline{\Box}$	Combination			
		LJ IMEI Cane	لبنيا	Compiliation	•		
Color: dark		Odor: <u>hydrocarbon</u>					
Specific Gravity (v	vater=1): <u>1-1.2</u>	Density: <u>8.3-8.6</u> l	bs/gal				
Layers:	Single-phase	Multi-pl	ase				
Container Type: Container Size:	☐ Drum	Tote		Truck 5000 gal		Other (explain)	
	<u> </u>		·		_		
Frequency:	☐ Weekly	☐ Monthly	$\boxtimes$	Quarterly	U	Yearly	
Texas State Waste	Code No: R	lecycle					
Proper U.S. DOT	Shipping Name:	Non RCRA No	n DOT I	Regulated Regi	ulated Mat	rial	
Class: NA	UNA	NA: NA		PG: NA		RQ: N	A
		· · · · · · · · · · · · · · · · · · ·	•				
Flash Point	pH	Reactive Sulfides		Reactive Cy	anides	Solids	
<u>&gt;140</u>	neutrai	<u>&lt;20</u> mg/l		<20mg/l		<u>0-10</u> %	
Oil&Grease	TOC	Zinc	TC	opper	Nie	kel	
>1000mg/l	>100mg/l	NAmg/I	<u> </u>	Amg/l	NA	mg/l	İ

### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE  The waste consists of the following materials	Concentration  Ranges are acceptable	Units or %	
Used Oil	0-90 - 90 - 10 U	1%	
Soilds	0-10	%	
		<del> </del>	

<b>SECTIO</b>	N 5:	Safety	Related	Data

lf the handling	of this	waste requi	res the u	se of	special	protective	equipment,	please	explain.
Standard PPF								-	_

SECTION 6	<ul> <li>Attached Sup</li> </ul>	porting Document

List all	documents,	notes, data,	and/or analysis	s attached to this	form as part	of the waste ap	proval package
Mr. La Like Chiphid (Arts	Chile - E	-Teit			_	-	

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):
None Known Oxid:344

### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u> </u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	Ž
Reactivity:	Ž
Corrosivity:	2
Ignitability:	2

**Authorized Signature:** 

### **SECTION 9: Generator's Certification**

Printed Name/Title: Stephen J. Craig

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)  Compliance Officers et al. [ Approved Rejected ]	Process Facility Information: Run Chlor D Tect, ash, and flash upon arrival Complete Informative report 350/1000 Freight
Approval Number: 2381	No charge for oil Mix w/ back oil

Date: September 25, 2007

### SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES ⊠ NO If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE, Metals Subcategory: Subpart A Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations

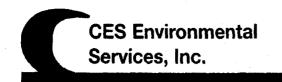
Tank clean-out from organic, non-petroleum sources

2	Ç	vaste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the v	vaste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess values listed below, the waste should be classified in the metals subcategory.
	Chrom Copper	um: 0.2 mg/L ium: 8.9 mg/L :: 4.9 mg/L :: 37.5 mg/L
(3)		vaste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or above any of the values listed above, the waste should be classified in the organics subcategory.
		Metals Subcategory
		Oils Subcategory
		Organics Subcategory

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

TYPE OF DOCUMEN		Files (waste 5	
DOCUMENTS OF INT	TEREST:	utineos Roporal Otential Custov	uen.
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VIOLATIONS SUPPO	RTED: DOT RCRA	A SDWA OSHA	<b>L</b>
BOX SEARECH BY:	Great	- Calpirl. - Shawcir - Amazon - PK Marfor	3
DATE SEARCHED:	9/23/09	- Cutigo - AYG Con	noticefrom
- chameentie - Evalca - Duco - champs - Andergough - TIW - Teach Nomet	on Ford.	- NOV Du - Arraw B - Calpin	ecycling e
nonet remaped.		$\int of \left\langle \cdot \right\rangle$	**************************************



# Waste Pre-Acceptance/Approval Letter

Date 5/29/2008

Dear Brian Williamson

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2800

**Expiration Date** 5/29/2010

Generator: NOV

**Address:** 11919 FM 529

Houston, TX 77041

### **Waste Information**

Name of Waste: oily water TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

spent lubricant with water from operations

Color: light amber

**Odor:** mild petroleum

**pH:** 7

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





Phone: (713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com

4904 Griggs Road, Houston, TX 77021

TCEQ Industrial Solid Waste Permit Number: 30948 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1:	Generator	Information								
Company:	NOV									
Address:	11919 FM	529								
City:	Houston		S	tate:	TX	Zip:				77041
Contact:	Guillermo	Bolivar			_Title:					
Phone Num	nber:	713-849-8047			_ Fax Numbe	r:				
24/hr Phon	e Number:				<del>-</del>					
US EPA ID										
State ID No	:			-	_SIC Code:					<u>-</u>
SECTION 2.	Dilling Info	rmation -	ama as Ab							
	Billing Info	olutions, Inc.	ame as Ab	ove						
Address:	2522 Roy C							<del> </del>		<del></del>
City:	Houston	cie	- Ci	tate:	TX	Zip:				77007
Contact:	Brian Willia	ımson		tate.	Title:	21p.	-			77007
Phone Num		(832) 788-2558			Fax Numbe	r:				
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(652) 766 2556				·· <del>·········</del>				<del></del>
SECTION 3:	General De	scription of the Wa	<u>ste</u>							
			_							
Name of W	aste:	Oily <del>Waste</del> water								
Detailed De	scription of	Process Generating	Waste:							
Spent lubric	ant with wa	ter from operations								
	_				_					
Physical Sta	ite:	Liquid		udge		Powder				
	. Ц	Solid	∐ Fi	iter Cake	• _	Combin	ation			
Color:	Light Ambe	<u>'r                                      </u>			Odor:	Mild Pe	troleum			
Specific Gra	vity (water=	.11.		0.92	,	Density		8.34 lbs/	aal .	
specific dia	vity (water-	·+ <i>j</i> ·		0.52	<u>-</u>	Density	•	0.34 103/	gai	
Does this m	aterial cont	ain any total pheno	lic compou	nds?	√ Y	es l	□No			
Does this m	aterial cont	ain any para substit	uted pheno	olic com	oounds?		Yes	√ No		
		• •	•	•		_		_		
Is the Wast	e subject to	the benzene waste	operation I	NESHAP?	(40 CFR Part	t 61, Subpa	irt FF)		Yes	✓ No
Answer "Yes	s" if your wa	ste contains benzen	e <b>AND</b> if th	e SIC cod	de from your	facility is or	ne of the	e following:	1	
2812	281	3 2816	2819	2821	. 282	22 28	323	2824	2833	2834
2835	283	5 2841	2842	2843	284	44 28	851	2861	2865	2869
2873	287	4 2876	2879	2891	. 289	32 28	93	2896	2899	2911
3312	495	3 4959	9511							
		_								
Layers:	Sin	gle-phase	Multi-pl	hase						
	_			. –						
Container T	ype: 📋	Drum 🗹 Tot	e ∐ Tr	uck 📙	Other (expla	ain)				
	□··	. [7] ******* [7]	V	1 Oct -						
		√ ☑ Monthly ☐	rearly 📋	Une-T	ıme .					
Quantity:	5									

	Is this a USEPA "Hazardous Waste" per 40CFR 261.3?							
Characteristic for Toxic	If "Yes", Is it:         □ D001 (Ignitable)         □ D002 (Corrosive)         □ D003 (Reactive)           Characteristic for Toxic Metals:         □ D004         □ D005         □ D006         □ D007         □ D008         □ D009							
Characteristic for Toxic	Organics: D012 thru D04	<b>3</b> (please list al	l that apply)					
	ed waste or mixed with o	ne?	☐ Ye	s 🗸	No			
40 CFR 261.33(e) or (f)	Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under  40 CFR 261.33(e) or (f)?							
Texas State Waste Cod	e Number:	Recycle	···					
Proper US DOT Shippin		A Non DOT Re	gulated mater	<u>ial</u>			~	
Class: na	UN/NA: na	PG :	na	_RQ:	na			
Flash Point	pH	Reacti	ve Sulfides	Reactive	Cyanides	Sol	ids	
>140	7	0	mg/l	0	mg/l	0 .	%	
Oil & Grease TOC			Zinc	Сор	per	Nic	kel	
71500 mg/l	4124 <u>mg/l</u>	.234	mg/l	.097	mg/l	.513	mg/l	
SECTION 4: Physical and Chemical Data								
CO	MPONENTS TABLE		CONCENTRATOIN				UNITS	
The waste consists of the following materials				Ranges are a	cceptable		or %	

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Refined petroleum	50-80	%
Water	20-50	%
	<del> </del>	
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	
	·	
·		-
		$\dashv$

	. Jaiety Kela			_					
If the hand	lling of this w	aste requires the	use of special pro	tective equip	ment, please e	explain.			
Standard									
	<del></del>		<del></del>	<del></del>	<del></del>			······	
CECTION C									
		upporting Docum							
List all doc	uments, note	s, data and/or ana	alysis attached to	this form as p	part of the was	ite			
approval p	ackage.			•					
Lab Memo	)		<u> </u>						
SECTION 7	: Incompatib	vilitios							
Please list	ALL incompat	tibilities (if any):							
		<u> </u>			<u></u>				
			· · · · · · · · · · · · · · · · · · ·						
			<u> </u>	•					
SECTION 8	· Generator's	s Knowledge Docu	umentation						
	-		-	listed below	WAS NOT DE	CODRACO			
-		he hazardous wast		listed below,	WAS NOT PEI	KFUKIVIED			
based upo	n the followir	ng generator know	/ledge:						
<b>TCLP Meta</b>	ls:	х .							
TCLP Volat	iles:	x							
TCLP Semi-		x							-
		****							
Reactivity:		X					· · · · · · · · · · · · · · · · · · ·		
Corrosivity	<b>':</b>	X						·	
Ignitability	:	X							
Facilities)	Is this mater	t Classification Und rial a wastewater or complete this section	· wastewater sludg		- Cotmens	✓ YES	□ NO	Waste Wat	
	PLEASE CHE	CK THE APPROPRIA	TE BOX. IF NO API	PROPRIATE CAT	TEGORY, GO TO	THE NEXT	PAGE.		
Adminis Cub.	Cb								
<u>ivietais Sub</u>	<u>category</u> : Sub	•	lar dudaac						
ř		oplating baths and/ ing rinse water and							
-	Chromate w	•	Siduges						
	=	control blow down	water and sludge	<b>-</b>					
F		zing solutions	water and siduge.	•					
-		wastewaters							
F	Waste liquid								
F	-	itaining wastes grea	ter than 136 mg/l						
7		and bases with or v							
Ē	=	sing, and surface p		s from electro	plating or phosi	hating ope	rations		
F	_	burring wastewate	-			٠,			
Ē		acid solutions used		rts or equipme	nt				
_			,						
Oils Subcate	egory : Subpai	rt B							
	Used oils								
	Ξ.	nulsions or mixtures	s						
Ť	Lubricants								
Ī	Coolants		•						
Ī	=	ed groundwater clea	an-up from petrole	um sources					
Ē		eum products	• •						
	Öil spill clear	•							
Г	Bilge water	*							
		waters from petrole	eum sources						

<u>L</u>	Interceptor wastes
<u>_</u>	Off-specification fuels
<u> </u>	Underground storage remediation waste
<u> </u>	Tank clean-out from petroleum or oily sources
늗	J Non-contact used glycols
<b>-</b>	Aqueous and oil mixtures from parts cleaning operations
L	Wastewater from oil bearing paint washes
Organics Su	<u>bcategory</u> : Subpart C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
	Off-specification organic product
	Still bottoms
-	Byproduct waste glycol
Ļ	Wastewater from paint washes
<u></u>	Wastewater from adhesives and/or epoxies formulation
<b> </b>	Wastewater from organic chemical product operations
<u></u>	Tank clean-out from organic, non-petroleum sources
(1)	
1	if the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
	9
(2)	•
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.    Oils Subcategory   Organics Subcategory
SECTION 10	Additional Instructions
Copper, Nicks	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This o acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11:	Generator's Certification
The informa	tion contained herein is based on 🔃 generator knowledge and/or 🔲 analytical data.
	ify that the above and attached description is complete and accurate to the best of
	ge and ability to determine that no deliberate or willful omissions of compostion
	xist and that all known or suspected hazards have been disclosed. I certify that the
	sted are representative of all materials described by this document.
Authorized 5	sould be
Printed Nam	ne/Title: Bran Williamson, Technical Sales
CES USE ONI	Y (DO NOT WRITE IN THIS SPACE)
Compliance (	Officer: Vahundan
Date:	579-08 ☐ Approved ☐ Rejected
Approval Nu	
April 40	

# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

\$75 per tote

\$70/ Nour For Trans 44x minimum

2. Contamination Limit (maximum limit before surchages apply):

1% Salids; Non Conforming if the Floshpt is 2140 F.
5000 ppm TOC

3. Surcharge Pricing:

\$.03/gal for each Additional Sour Toc \$.01/JAI for each Additional percentage Solids

4. Special Testing Requirements:

test oil, for Chlor-D-Tect, floch, % solids; Mon Conferming it the flash test bit for pH, phenols, Tss, metals point is < 140°F.

5. Treatment and Handling Protocol:

the oil and water phase needs separation. Take the oil parties to Block Dil. Process the water to mask water.

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A

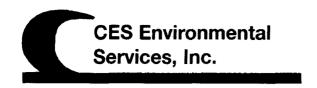
Subcategory B

☐ Subcategory C



# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product	Recovered/Recycle	ed (if applicable):		 
			-	
8. Management for	Product Recovered	/Recycled (if appl	licable)	
		7 ( upp.		 



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Date: 05/27/08

To: Joy Baker

Cc: Kelli Lofton, Gary Peterson

From: Miles Root Lab Memo: 08-087

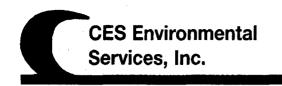
Subject: Working Solutions Evaluations 0508-53 & 54

Two samples of oily water from Working Solutions have been evaluated for potential processing at CES. These two samples are evaluations 0508-53 and 54. Overall, both of these samples have good recoverable oil with water that will be easily treated.

Each of these samples is approximately two thirds oil. The oil is light amber in appearance and has a clean separation from the water phase. The chlor-d-tect on both oil samples is low. Flash points are greater than 140 deg F. The water phase on evaluation 0508-54 does treat to form a dark blue black color upon the addition of lime during the treatment phase. When mixed and the polymer is added this color dissipates and the water is slightly amber tinted but clear. This should not be a problem, but thought it worth noting. Evaluation 0508-53 treats without issues. TOC and metals on both treated waters are acceptable.

Both samples look good for processing to recover the oil. The treated waters process easily and there should be minimum issues. Below is a summary of the analytical work on both of these samples.

Working Solutions					
	Eval 0508-53	Eval 0508-54			
Water	 				
рН	7	7			
TOC, mg/L	1170	4124			
Phenols, ppm	2	4			
Treatability	OK	OK			
Metals					
Cd	0.068	0.059			
Cr	0.097	0.088			
Cu	0.091	0.265			
Ni	0.349	0.513			
Zn	0.227	0.234			
Oil					
Flash Point, deg F	> 140	> 140			
Chlor-d-tect	100	300			



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Waste Pre-Acceptance/Approval Letter**

Date 5/30/2008

Dear Melissa Saulsbury

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2801

Expiration Date 5/30/2010

**Generator:** Citation-Lufkin **Address:** 1611 N. Raguet

Lufkin, TX 75904-2143

Waste Information

Name of Waste: Grease

**TCEQ** Waste Code #: 01026961

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Remoal of residual grease from product drums

Color: various

**Odor:** grease like

pH: neutral

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# CES Environmental Services, Inc.

4904 Griggs Road

Houston, TX 77021

Phone: (713) 676-1460

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 ISWR No: 30948

**ISWR No: 30900** 

SECTION 1: Genera	ator Information					
Company:	Citation-Lufkin					
Address: City, State, Zip:	1611 N. Raguet Lufkin, TX 75904-2	1/12				
City, State, Zip:	Melissa Saulsbury	143	Title:	Evironme	ntal Technician	
Phone No:	936-633-4189		Fax No:	936-633-4		
24/hr Phone:	CES-713-676-1460		rax Hu.	730-033-	1120	
U.S. EPA I.D. No:	TXD008066946					
State I.D.	31246		SIC Code:	3322		
SECTION 2: Billing	Information – 🗌 Sar	ne as Above	-			
	Citation					
	P.O. Box 3718					
· · · · ·	ufkin					
	Melissa Saulsbury	Title:	Environmental	Technicia	<u> </u>	
Phone No: 9	36-633-4189	Fax No:	936-633-4120			
SECTION 3: Genera	al Description of the V	<u>Vaste</u>				
Name of Waste: Great Detailed Description	_	g Waste: Removal of resid	ual grease from	product dr	<u>ums</u>	
Physical State:	☐ Liquid ⊠ Solid	Sludge E	Powder Combination			
Color: various	Ode	or: <u>Grease Like</u>				
Specific Gravity (wat	er=1): <u>1:2</u>	Density: 9 lbs/gal w	a			
Does this material con	ntain any total phenol	lic compounds?   Yes	⊠ No			
Does this material con	ntain any para substit	uted phenolic compounds	s? ☐ Yes	No		
Layers:	⊠ Single-phase	☐ Multi-phase				
Container Type: Container Size:	<b>☑ Drum</b>   <u>55</u>	□ Tote □ □ ·	Truck		Other (explain) ——	
Frequency:	☐ Weekly	Monthly      □	Quarterly		Yearly	
Number of Units (con	Number of Units (containers): 1-2 Other:					
Texas State Waste Code No: 01026961						
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material						
Class: NA	UN/NA:	NA	PG: NA		RQ: NA	

### SECTION 10: Waste Receipt Classification Under 40 CFR 437

Flash Point	pН	Reactive Sulfides	Reactive Cyar	nides	Solids
<u>&gt;150</u>	neutral	<u>O</u> mg/l	0mg/1		<u>100</u> %
Oil&Grease	TOC	Zinc	Copper	Nickel	
>1500mg/l	>1500mg/I	Omg/i	<u>0</u> mg/1	<u>O</u> mg/l	

### SECTION 4: Physical and Chemical Data

COMEDNIORES WATERS	Soncentration	Units	
The waste consists of the following materials	Ranges are acceptable	or %	
Grease	50-80	1%	
Plastic Bags	20-50	%	
Trash	0-5	%	
		7	

### **SECTION 5: Safety Related Data**

If the handling of this waste requires the use of special protective equipment, please explain. Level  $\underline{D}$ 

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. MSDS

### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any): oxidizers

### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	<u> X</u>
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	<u>X</u>
Ignitability:	X

### SECTION 9: Generator's Certification

The information contained herein is based on  $\boxtimes$  generator knowledge and/or  $\square$  analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.					
Authorized Signature: Mark Saulsburg	Date: <u>4-25-08</u>				
Printed Name/Title: Mchssa Saulsbury / Environmental					
CES USE ONLY (DO NOT WRITE IN THIS SPACE)					
Compliance Officer: Polynamia A					
Date: 5-30-08 Approved Rejected					
Approval Number: Z80]					

2

<u>SI</u>	ECTION 10: Waste Receipt Classification Under 40 CFR 4	<u>137</u>
Is	this material a wastewater or wastewater sludge?   YES	⊠ NO
If	'Yes', complete this section.	
Pl	LEASE CHECK THE APPROPRIATE BOX. IF NO APPRO	OPRIATE CATEGORY, GO TO THE NEXT PAGE.
<u>Meta</u>	als Subcategory: Subpart A	
	Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from ele Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equi	
<u>Oils</u>	Subcategory: Subpart B	
x	Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum source Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes	s
<u>Orga</u>	anics Subcategory: Subpart C	
	Landfill leachate Contaminated groundwater clean-up from non-petroleum so Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations	urces
	Tank clean-out from organic, non-petroleum sources	

- (1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
- (2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

$\Box$	Metals Subcategory
A/	Oils Subcategory
	Organics Subcategory

### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



# **PROCESS FACILITY INFORMATION (CES USE ONLY!!)**

1.	Base Pricing (including freight):
	\$40.00/drum \$100.00 bag
	Transportation \$70.00/hour plus FSC
'	
2.	Contamination Limits (maximum limit before surcharges apply):
ı	NA NA
ļ	NA .
ı	
l	
•	Considerate Delicities
3.	Surcharge Pricing:
	NA .
Į	
4.	Special Testing Requirements:
	NA
5.	Treatment and Handling Protocol:
ſ	Class I solids
L	
6.	Treated Wastewater Discharge Subcategory:
 Г	
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
	Subcategory A Subcategory E Subcategory C



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

/•	1ests for Froduct Recovered/Recycled (II applicable):
	NA
8.	Management for Product Recovered/Recycled (if applicable);
8.	Management for Product Recovered/Recycled (if applicable); NA
8.	
8.	
8.	



# **Material Safety Data Sheet**



- Click on the product name to go to the Salesfax description sheet.
- Click on the grade to go to the Salesfax typical test data sheet.

# Chevron Ulti-Plex® Grease EP NLGI 0, NLGI 1, NLGI 2

MSDS: 6701 Revision #: 1 Revision Date: 12/10/97

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON Ulti-Plex Grease EP

SYNONYM: CHEVRON Ulti-Plex Grease EP NLGI 0

CHEVRON Ulti-Plex Grease EP NLGI 1 CHEVRON Ulti-Plex Grease EP NLGI 2

COMPANY IDENTIFICATION

EMERGENCY TELEPHONE NUMBERS

Chevron Products Company Global Lubricants 555 Market St. Room 803 San Francisco, CA 94105-2870 HEALTH (24 hr): (800)231-0623 or (510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC (800)424-9300 or (703)527-3887
Emergency Information Centers are located in U.S.A.
Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500

Environmental, Safety, & Health Info: (415) 894-0703

Product Information: (800) 582-3835

SPECIAL NOTES: This MSDS is for the entire line of CHEVRON Ulti-Plex

Grease EP products.

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON Ulti-Plex Grease EP

CONTAINING

COMPONENTS

AMOUNT

LIMIT/QTY

AGENCY/TYPE

LUBRICATING BASE OIL CONTAINING ONE OR MORE OF THE FOLLOWING > 60.00%

SOLVENT DEWAXED DIST., HVY PAR

Chemical Name: DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC

CAS64742650

5 mg/m3 (mist)

ACGIH TWA

10 mg/m3 (mist) 5 mg/m3 (mist) ACGIH STEL OSHA PEL

HYDROTREATED DIST., HVY NAPHTH

Chemical Name: DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC

CAS64742525

5 mg/m3 (mist) 10 mg/m3 (mist) ACGIH TWA ACGIH STEL

5 mg/m3 (mist)

OSHA PEL

SOLVENT REFINED RESIDUUM

Chemical Name: RESIDUAL OILS SOLVENT REFINED

CAS64742014

5 mg/m3 (mist) 10 mg/m3 (mist) 5 mg/m3 (mist) ACGIH TWA ACGIH STEL OSHA PEL

LITHIUM BASE THICKENERS

< 15.00% .

ADDITIVES INCLUDING THE FOLLOWING

< 25.00%

ZINC COMPOUNDS

< 3.50%

ANTIMONY COMPOUND

ANTIMONY DIALKYLDITHIOCARBAMATE

< 1.00%

0.5 mg/m

ACGIH TWA

COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

### 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYE:

Not expected to cause prolonged or significant eye irritation. SKIN:

Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. See Section 11 for additional information. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

INGESTION:

Not expected to be harmful if swallowed.

INHALATION:

Contains a petroleum-based mineral oil that may cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of airborne levels above the recommended exposure limit.

### 4. FIRST AID MEASURES

#### 16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0; HMIS RATINGS: Health 1; Flammability 1; Reactivity 0; (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE: Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

#### REVISION STATEMENT:

This revision updates Section 2 (Composition), Section 8 (Exposure Controls/Personal Protection) and Section 11 (Toxicology Information).

### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value TWA - Time Weighted Average TPQ - Threshold Planning Quantity STEL - Short-term Exposure Limit RQ - Reportable Quantity PEL - Permissible Exposure Limit

- Ceiling Limit CAS - Chemical Abstract Service Number A1-5 - Appendix A Categories

() - Change Has Been Proposed

NA - Not Applicable NDA - No Data Available

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology and Health Risk Assessment Unit, CRTC, P.O. Box 1627, Richmond, CA 94804

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

THIS IS THE LAST PAGE OF THIS MSDS

### 14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE FEDERAL DOT

DOT HAZARD CLASS: NOT APPLICABLE

DOT IDENTIFICATION NUMBER: NOT APPLICABLE

DOT PACKING GROUP: NOT APPLICABLE

### 15. REGULATORY INFORMATION

SARA	311	CATEGORIES:	1.	Immediate (Acute)	Health Effects:	NO
			2.	Delayed (Chronic)	Health Effects:	NO
			3.	Fire Hazard:		NO
			4.	Sudden Release of	Pressure Hazard:	NO
			5.	Reactivity Hazard	•	NO

#### REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ RTK	22=TSCA Sect 5(a)(2)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=NTP Carcinogen	13=MN RTK	24=TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26=TSCA Sect 8(d)
06=IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07=IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
08=IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
09=SARA 302/304	19=Chevron TWA	30=Chevron STEL
10=PA RTK	20=EPA Carcinogen	

The following components of this material are found on the regulatory lists indicated.

RESIDUAL OILS SOLVENT REFINED
is found on lists: 14,15,17,
DISTILLATES, HYDROTREATED HEAVY NAPHTHENIC
is found on lists: 14,15,17,

DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC

is found on lists: 14,15,17,
ANTIMONY DIALKYLDITHIOCARBAMATE
is found on lists: 01,11,14,28,
ZINC COMPOUNDS
is found on lists: 01,10,11,

EU RISK AND SAFETY STATEMENTS:

May cause long-term adverse effects in the aquatic environment. NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:

Petroleum Oil (Grease) WHMIS CLASSIFICATION:

This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

INCOMPATIBILITY WITH OTHER MATERIALS:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

#### 11. TOXICOLOGICAL INFORMATION

### EYE EFFECTS:

The mean 24-hour Draize eye irritation score in rabbits is 3.0/110. SKIN EFFECTS:

For a 4-hour exposure, the Primary Irritation Index (PII) in rabbits is: 1.2. The acute dermal LD50 in rabbits is >2 g/kg. ACUTE ORAL EFFECTS:

The acute oral toxicity is based on data for a similar material. ACUTE INHALATION EFFECTS:

The acute respiratory toxicity is based on data for a similar material. ADDITIONAL TOXICOLOGY INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

This product contains a triarylphosphate which when given in large oral doses (4 g/kg) to hens caused delayed nerve damage that resulted in loss of coordination and difficulty in walking; these effects were not observed in hens given 2 g/kg. In another study, hens given 3 g/kg also showed no effects. Continuous daily dermal exposure to 50 mg/kg of this material for 5 days/week for 4 months similarly did not result in any nerve damage in hens. Evaluations of the manufacturer's workers who make this and similar chemicals have not demonstrated any unusual pattern of mortality or disease. We believe that there should be no risk of nerve damage to workers who handle this product when the precautions outlined in this MSDS and on the product label are followed to minimize exposure.

This material contains antimony. Dizziness and respiratory problems such as pneumonitis and pneumoconiosis have been associated with exposure to antimony.

### 12. ECOLOGICAL INFORMATION

### ECOTOXICITY:

No data available.

ENVIRONMENTAL FATE:

This material is not expected to be readily biodegradable.

### 13. DISPOSAL CONSIDERATIONS

Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

Do not use pressure to empty drum or drum may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### ENGINEERING CONTROLS

Use in a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION:

No special eye protection is normally required.

SKIN PROTECTION:

No special protective clothing is normally necessary.

RESPIRATORY PROTECTION:

No special respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended exposure limits. If not, select a NIOSH/MSHA approved respirator that provides adequate protection from concentrations of this material. Use the following elements for air-purifying respirators: particulate.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:

Soild purple grease.

pH:

NDA

VAPOR PRESSURE:

NA

NA

VAPOR DENSITY

(AIR=1): NA
BOILING POINT: NDA
FREEZING POINT: NDA

MELTING POINT: SOLUBILITY:

Soluble in hydrocarbon solvents; insoluble in water.

SPECIFIC GRAVITY: 0.91 @ 15.6/15.6C

VOLATILE ORGANIC

COMPOUNDS (VOC): 2.1 wt.8

EVAPORATION RATE: NA

VISCOSITY:

18.0 - 22.0 cSt @ 100C (Min.)

PERCENT VOLATILE

(VOL):

NA

### 10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

CHEMICAL STABILITY:

Stable.

CONDITIONS TO AVOID:

No data available.

EYE:

No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water. SKIN:

No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap and water. Wash or clean contaminated clothing and shoes before reuse. INGESTION:

No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person. INHALATION:

If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

NOTE TO PHYSICIANS:

In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

### 5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:

Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

FLAMMABLE PROPERTIES:

FLASH POINT: 525F (274C)

AUTOIGNITION: NDA

FLAMMABILITY LIMITS (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA:

CO2, Dry Chemical, Foam, Water Fog

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0.

FIRE FIGHTING INSTRUCTIONS:

This material will burn although it is not easily ignited.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide and water vapor and may produce oxides of sulfur, nitrogen, phosphorus, and antimony. Normal combustion forms oxides of zinc. Incomplete combustion can produce carbon monoxide.

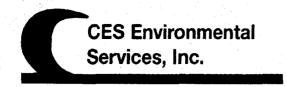
### 6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (703)527-3887 International Collect Calls Accepted

ACCIDENTAL RELEASE MEASURES:

Clean up spills immediately, observing precautions in Exposure Controls/Personal Protection section.

### 7. HANDLING AND STORAGE



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 6/4/2008

Dear John McBride

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2802

**Expiration Date** 6/4/2010

**Producer:** Sun Coast Resources, Inc.

Address: 6922 Cavalcade

Houston, TX 77028

Material / Product Information

Name of Material / Product Gassy water

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Gas and water mixture from removing water from underground gas storage units.

Color: varies

**Odor:** slight hydrocarbon

**pH:** 3-9

**Physical State:** 

**Incompatibilities:** oxidizers

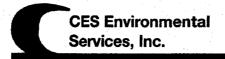
Safety Related Data/Special Handling:

level C PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. DR OK



4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676 http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Mater	ial Producer Information		
Company:	Sun Coast Resources, Inc		
Address:	6922 Cavelcade		
City, State, Zip:	Houston, TX 77028	·	
Contact:	John McBride	Title:	
Phone No:	713-336-4561	Fax No:	713-429-8829
24/hr Phone:	281-850-5126	<del> </del>	
U.S. EPA I.D. No:	Na		
State I.D.	Na	SIC Code:	
	Information – X Same as Above		
Company:		·	
Address:			
City, State, Zip:			
Contact:	Title		
Phone No:	Fax	No:	
SECTION 3: General	al Description of the Material / Product		
Name of Material / P Detailed Description from underground gas	of Process Generating or Producing the	Material / Product:	Gas and water mixture from removing water
Physical State:	□ Sludge	Powder	
Physical State.	Solid Filter Cake	☐ Combination	n
Color: Varies		☐ Combination	<b>on</b>
	Solid Filter Cake Odor: Slight Hydroca	Combination	<b>)11</b>
Color: <u>Varies</u> Specific Gravity (wat	Solid Filter Cake Odor: Slight Hydroca	Combination Combination Combination	<b>n</b>
Color: <u>Varies</u> Specific Gravity (wat	Solid Filter Cake  Odor: Slight Hydrocan  Density: 7-8 lbs/g	☐ Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Combination  The Com	on ⊠ No
Color: <u>Varies</u> Specific Gravity (wat	Odor: Slight Hydrocal  rer=1): .899  Density: 7-8 lbs/g  ntain any total phenolic compounds?	☐ Combination    Combination   Combination   Combination   All   Yes	
Color: Varies  Specific Gravity (wat  Does this material co  Does this material co  Layers:  Container Type:	Odor: Slight Hydrocan  rer=1): .899  Density: 7-8 lbs/g  ntain any total phenolic compounds?   ntain any para substituted phenolic com	☐ Combination    Combination   Combination   Combination   Yes	
Color: Varies  Specific Gravity (wat  Does this material co  Does this material co  Layers:	Odor: Slight Hydrocan  rer=1): .899  Density: 7-8 lbs/g  ntain any total phenolic compounds?  ntain any para substituted phenolic com  Single-phase  Multi-ph	☐ Combination   Thom  al  Yes ☑ No  apounds? ☐ Yes ☐ Yes ☐ Yes	<b>⊠</b> No
Color: Varies  Specific Gravity (wat  Does this material co  Does this material co  Layers:  Container Type:  Container Size:	Odor: Slight Hydrocan  rer=1): .899  Density: 7-8 lbs/g  ntain any total phenolic compounds?   ntain any para substituted phenolic com  Single-phase  Drum  Tote	Combination    Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   C	⊠ No  ☐ Other (explain) ———
Color: Varies  Specific Gravity (wat  Does this material co  Does this material co  Layers:  Container Type:  Container Size:	Odor: Slight Hydrocan  oer=1): .899  Density: 7-8 lbs/g  ntain any total phenolic compounds?   ntain any para substituted phenolic com  Single-phase  Drum  Tote  Weekly  Monthly	☐ Combination    Combination   Combination   Combination   Yes	<b>⊠</b> No
Color: Varies  Specific Gravity (wat  Does this material co  Does this material co  Layers:  Container Type:  Container Size:	Odor: Slight Hydrocan  rer=1): .899  Density: 7-8 lbs/g  ntain any total phenolic compounds?   ntain any para substituted phenolic com  Single-phase  Drum  Tote  Multi-ph  Weekly  Monthly	Combination    Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   C	⊠ No  ☐ Other (explain) ———
Color: Varies  Specific Gravity (wat  Does this material co  Does this material co  Layers:  Container Type:  Container Size:	Odor: Slight Hydrocan  oer=1): .899  Density: 7-8 lbs/g  ntain any total phenolic compounds?   ntain any para substituted phenolic com  Single-phase  Drum  Tote  Weekly  Monthly	Combination    Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   Combination   C	⊠ No  ☐ Other (explain) ———
Color: Varies  Specific Gravity (wat  Does this material co  Does this material co  Layers:  Container Type:  Container Size:	Odor: Slight Hydrocan  oer=1): .899  Density: 7-8 lbs/g  ntain any total phenolic compounds?   ntain any para substituted phenolic com  Single-phase  Drum  Tote  Weekly  Monthly  ntainers): 1  Other:	Combination  chon  al  Yes No  npounds? Yes  ase  Truck 1-5500  Quarterly	⊠ No  ☐ Other (explain) ———

Flash Point <120	р <b>Н</b> 3 <u>-9</u>	N/A	N/A		Solids Na%		
Oil&Grease	TOC	Zinc	Copper	A_ Nic	kel	()	
7150 mg/1	<5000mg/l	Testmg/l	Testmg/f	Les	tmg/l		
SECTION 4: Physics	al and Chemical D	<u>ata</u>					
	COMPONENT			Concentra	ition	Units	
The materia	I / product consists	s of the following materia	ils	Ranges are ac	ceptable	or %	
Gasoline						2-3	
Water						94-98	
		· · · · · · · · · · · · · · · · · · ·					
		·		· · · · · · · · · · · · · · · · · · ·		<u> </u>	
If the handling of this		t requires the use of spec	cial protective	e equipment, ple	ase explain.		
If the handling of this Leve C PPE	material / produc		cial protective	e equipment, ple	ase explain.		
If the handling of this Leve C PPE SECTION 6: Attache	material / produc	<u>uments</u>					
If the handling of this Leve C PPE SECTION 6: Attache List all documents, no	material / produc						
If the handling of this Leve C PPE SECTION 6: Attache List all documents, no	material / produc	<u>uments</u>					
If the handling of this Leve C PPE SECTION 6: Attache List all documents, no	material / produced Supporting Docestes, data, and/or a	<u>uments</u>					
If the handling of this Leve C PPE  SECTION 6: Attache List all documents, no None  SECTION 7: Incomp	material / produced Supporting Docestes, data, and/or a	<u>uments</u>					
Leve C PPE SECTION 6: Attache	material / produced Supporting Docestes, data, and/or a	<u>uments</u>					
If the handling of this Leve C PPE SECTION 6: Attache List all documents, no None SECTION 7: Incomp	material / produced Supporting Doced Supporting Doced Supporting Doced Supporting Doced Supporting Doced Supporting Doced Supporting Doced Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Support Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Supporting Support	uments nalysis attached to this f					
If the handling of this Leve C PPE  SECTION 6: Attached List all documents, no None  SECTION 7: Incompa Oxidizers  SECTION 8: Materia attached description is compositions of compositions.	ed Supporting Doc otes, data, and/or a natibilities atibilities (if any): al Producer's Certined herein is based complete and accion properties exist	uments nalysis attached to this f	orm as part of	f the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material / particular from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from the material from	oroduct provi	file.  tify that the odeliberate	or will

Printed Name/Title: John McBride

Approval Number:

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Approved

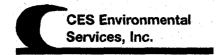
2802

Rejected



## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Base Pricing (including freight):				
.17/gal <5000 TOC on water phase, <2% Solids				
Contamination Limits (maximum limit before s	surcharges annivi			
	di charges approj.			
Flash, Phenol a on water phase, chlor-d-tect pass,				
		-		
Surcharge Pricing:		•		
.03/gal in 5000 increments of TOC				:
Call Dan if any solids				
Carried Testing Degrainsmenter			en en en en en en en en en en en en en e	
Special Testing Requirements:				
TOC on water phase, phyphenol, Silids				
				•
	•			
Treatment and Handling Protocol:				
	1	1 !		1.
Treat in Hydrocarbon Processing Plant; Decan this hydrocarbon will have a lo	a oil brace do	m naver pri	ice it possi	ire,
Trys nyapucar for will have a lo	n Hashpoint.			
				-
	····	·	· · · · · · · · · · · · · · · · · · ·	
				-
Treated Wastewater Discharge Subcategory:				
☐ Subcategory A ☐ Subcategor	y B Subcat	egory C		
<u> </u>	,			
Treated Wastewater Discharge Subcategory:  ☐ Subcategory A  Subcategory	y B Subcat	egory C		



### PROCESS FACILITY INFORMATION (CES USE ONLY!!)

٠.	1 ests for 1 rouget Recovered/Recycl	cu (n applicable).			
	BTU				
		•			
		·			 
	Management from Day June 1 Day and and	1/D 1- 3 //e 1/1-1-)			
8.	Management for Product Recovered		<u> </u>		 
	Sell recovered product in light ends ma	arket			
	•		•		
					·
				The Armstern	



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 6/4/2008

Dear John McBride

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2803

Expiration Date 6/4/2010

Producer: Sun Coast Resources, Inc.

**Address:** 6922 Cavalcade

Houston, TX 77028

### Material / Product Information

Name of Material / Product Oil and water mixture

Container Type:

Detailed Description of Process Generating or Producing the Material / Product:

Oily water from used oil collections.

Color: varies

Odor: slight hydrocarbon pH: 3-9

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

level d ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

# **CES Environmental** Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEO Industrial Solid Waste Permit No: 30948 U.S. EPA ID No: TXD008950461 **ISWR No: 30900** 

**SECTION 1: Material Producer Information** Sun Coast Resources, Inc Company: 6922 Cavelcade Address: Houston, TX 77028 City, State, Zip: Title: Contact: John McBride Phone No: 713-336-4561 Fax No: 713-429-8829 24/hr Phone: 281-850-5126 Na U.S. EPA I.D. No: Na SIC Code: State I.D. SECTION 2: Billing Information –  $\boxtimes$  Same as Above Company: Address: City, State, Zip: Title: Contact: Phone No: Fax No: SECTION 3: General Description of the Material / Product Name of Material / Product: Oil and Water Mixture Detailed Description of Process Generating or Producing the Material / Product: Oily water from used oil collections. ☐ Sludge Powder **Physical State:**  □ Liquid ☐ Solid ☐ Filter Cake Combination Odor: Slight Hydrocarbon Color: Varies Specific Gravity (water=1): .8-.99 Density: 7-8 lbs/gal Does this material contain any total phenolic compounds? 

Yes Does this material contain any para substituted phenolic compounds? 

Yes ☐ Single-phase Multi-phase Layers:  $\boxtimes$ **Container Type:**  $\boxtimes$ Tote Truck Other (explain) Drum 1-5500 **Container Size:** Frequency: 冈 Weekly Monthly Quarterly Yearly Number of Units (containers): 1 Other: Recyclable Oily Water Mixture Proper U.S. DOT Shipping Name: Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point	pН	N/A	N/A	Solids
>120200 NW	<u>3-9</u>			0-2%
Oil&Grease	TOC	Zinc	Copper	Nickel
>150 mg/l	<5000mg/l	Testmg/I	Testmg/I	Testmg/l

### **SECTION 4: Physical and Chemical Data**

COMPONENTS TABLE	Concentration	Units
The material / product consists of the following materials	Ranges are acceptable	or %
Oil		2-3
Water		94-97
Debris (dust, grease, soil)	·	A-3-1-
		#
	·	

### **SECTION 5: Safety Related Data**

If the handling of this material / product requires the use of special protective equipment, please explain. <u>Leve D PPE</u>

### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile. None

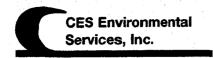
### **SECTION 7: Incompatibilities**

Please list all incompatibilities (if any):

 $\underline{Oxidizers}$ 

SECTION	R· M	aterial	Produce	r'e	Certific	cation
SECTION	D. 171	altı lal	livuucc		CU um	Lauvi

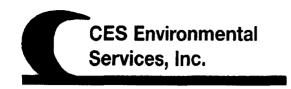
The information contained herein is based on $\boxtimes$ generator knowledge and/or $\square$ attached description is complete and accurate to the best of my knowledge and omissions of composition properties exist and that all known or suspected hazards tested are representative of all materials described by this document.	ability to determine that no deliberate or willful
Authorized Signature:	Date: <u>05/29/08</u>
Printed Name/Title: John McBride=	-
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: John Manager A	
Date: 6-4-08 Approved Rejected	
Approval Number: 2803	



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	.095/gal, <5000 TOC on water phase,
	.17 For emulsion
2.	Contamination Limits (maximum limit before surcharges apply):
	Flash 120; Phenol, chlor-d-tect pass,
	7120
3.	Surcharge Pricing:
	.03/gal in 5000 increments of TOC Call Dan if solids are over 2%
4.	Special Testing Requirements:
	Used Oil Tests, on water phose run phenot - TOC.
	riasn ·
	Phenol on water phase Chlor-d-tect >1000 PPM
	Z-1000 PD-
- 5.	Treatment and Handling Protocol:
-	Treat in Hydrocarbon Processing Plant
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C

2804 KMCO, MC



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# **Material / Product Approval Letter**

Date 6/4/2008

Dear Bill Glushko

Thank you for choosing CES Environmental Services, Inc. for your material / product recycling needs. The following material has been approved at our facility in Houston, TX. If the material received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2804

**Expiration Date** 6/4/2010

Producer: KMCO, Inc.

Address: 16503 Ramsey Rd.

Crosby, TX 77532

Material / Product Information

Name of Material / Product SIB product

**Container Type:** 

Detailed Description of Process Generating or Producing the Material / Product:

Caustic washing of reaction product (molten sulfur and sulfurized isobutylene)

Color: idoine/amber

Odor: mercaptan/strong

pH: 9-13 typical

**Physical State:** 

**Incompatibilities:** contact w/strong acids will evolve H2S

Safety Related Data/Special Handling:

Rubber boots, rubber gloves, goggles, respirator, chem suit

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.

## **CES Environmental** Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021

matt Bouman

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 30948

U.S. EPA ID No: TXD008950461 ISWR No: 30900

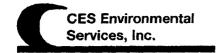
	ial Producer Information	<u>n</u>			
Company :	KMCO, Inc.				
Address:	16503 Ramsey Rd.	16503 Ramsey Road			
City, State, Zip:	Crosby TX 77532				
Contact:	Bill Glushko		Title :		
Phone No:	(281) 328-3501		Fax :	281-328-9528	
24 / HR Phone :					
U.S EPA I.D No :	TXD074198961				
State I.D :	31904		SIC Code	2869	
SECTION 2: Billing	g Information				
Company :	KMCO, Inc.				
Address :	16503 Ramsey Rd.	16503 Ramsey Road			
City, State, Zip :	Crosby TX 77532				
Contact :	Bill Glushko		Title :		
Phone No :	(281) 328-3501		Fax :	281-328-9528	
SECTION 2: Como	ral Description of the Ma	storial / Bradust			
	I / Product: られる				
			0		
-		_	ng the Material / Produc	CT:	
Caustic wasning of	or reaction product (mo	olten sulfur and sulfurize	a isobutylene)		
Physical State :	💢 Liquid	Sludge	Powder		
	<b>Solid</b>	Filter Cake	Combination		
Color :		iodine/amber	Odor :	mercaptan/st	rong
Specific Gravity	(Water=1) :	1.37	Density :	11.4	lbs / gal
Does this material	contain any total pheno	lic compounds?	☐ Yes ✓ No		
Does this material	contain any para substi	tuted phenolic compoun	ids?	<b>✓</b> No	
Does this material Layers :	contain any para substi Single-Phas	ituted phenolic compoun  Multi-Phase	_	<b>☑</b> No	
_	<b>⊘</b> Single-Phas	Multi-Phase	_		
Layers : Container Type :	<b>⊘</b> Single-Phas	Multi-Phase	_		
Layers : Container Type : Container Size :	✓ Single-Phas  Drum  5000	Multi-Phase	_		
Layers : Container Type : Container Size : Number Of Units	✓ Single-Phas  Drum  5000	■ Multi-Phase Tote ✓ T	ruck 📓 Other (exp		

*	Flash Point >150	pH 9-13 typical	Reactive Sulfides 00-2500 typics mg/l	Reactive Cyanides <20 mg/l	<b>Solids</b> 0-1 %
I	Oil and Grease <100 mg/l	T <b>OC</b> <2500 mg/l	Zinc	Copper	Nickel
L	1100 111g/1	~2500 filg/i	na mg/l	na mg/l	namg/l

### **SECTION 4: Physical and Chemical Data**

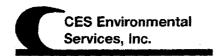
COMPONENTS TABLE  The material / product consists of the following materials	Concentration  Ranges are acceptable	Units or %
water	70-90	%
sodium hydroxide	2-15	%
sulfurized salts; sulfides and solids	2-15	%
sulfurized isobutylene	0-2	%
NaHS	3-5	%

sulfurized isobutylene		0-2	%
NaHS		3-5	%
SECTION 5: Safety Related Data			
If the handling of this material / product requires the use of special prote	ctive equipment, p	lease explain.	
Rubber boots, rubber gloves, goggles, respirator, chem suit			
SECTION 6: Attached Supporting Documents			
List all documents, notes, data, and/or analysis attached to this form as	nart of the material	/ product profile	
Analytical 3/7498	part of the material	7 product prome.	
SECTION 7: Incompatibilities			
Please list all incompatibilities (if any):			
contact w/ strong acids will evolve H2S			
SECTION 8: Material Producer's Certification	111		
The information contained herein is based on ✓ generator knowledge a	and/or💋 analytic	al data. I hereby co	erity that the
above and attached description is complete and accurate to the best of n deliberate or willful omissions of composition properties exist and that a			
disclosed. I certify that the materials tested are representative of all materials			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		5/27/08	
Authorized Signature: NA - Product	Date :	5127.108	
Printed Name / Title : Bill Glusko / Env Mgr			
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process	Facility Informatio	n ·
	Frocess	r actinty informatio	" -
Compliance Officer: Parhablarad			
Date: 6-4-08 Status: Approved Rejected			
Approval Number: 2804			
- Tr			



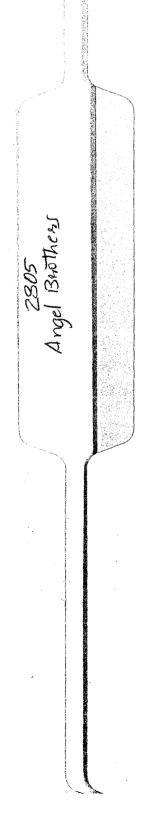
## **PROCESS FACILITY INFORMATION (CES USE ONLY!!)**

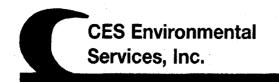
1.	Base Pricing (including freight):
	\$1.50/gd; trans \$69/hz; FSC; \$250 tralz washout; \$3/94
	for hed
2.	Contamination Limits (maximum limit before surcharges apply):
	Material received munst be a single, have that cannot have any top oil phase greater than 2 % it a second top oil phase
3.	Surcharge Pricing:
	7
4.	Special Testing Requirements:
)	pH, density, sulfides, mencapters & eb/gal Calc. Then with up
	an SIB treatment; newed all info in the log book
•	
5.	Treatment and Handling Protocol:
	specially treatment. Always have the driver pull into the bay
	on the south bay side, and have 2 samples pulled
6.	Treated Wastewater Discharge Subcategory:
	Subcategory A Subcategory B Subcategory C



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

Tests for Product Recover		
Management for Product	Recovered/Recycled (if applicable);	
Management for Product	Recovered/Recycled (if applicable);	





4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 6/4/2008

Dear Rick Sinclair

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2805

Expiration Date 6/4/2010

**Generator:** Angel Brothers **Address:** 3300 N. Main

Baytown, TX 77522

### Waste Information

Name of Waste: sump sludge TCEQ Waste Code #: CESQ6031

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

sump sludge from washrack operations

Color: dark

Odor: slight

**pH**: 6-9

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc. Redirect a Process to where & Republic.



4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676

http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1:	Generator I	<u>nformatio</u>	<u>on</u>											
Company:	Angel Broth	iers											_	
Address:	3300 N. Ma	in Street												
City:	Baytown				State:	TX		Zip:						77521
Contact:	Bobby Fehr	ing				Title:		-		****				
Phone Num	ber:					- Fax Nun	ber:							
24/hr Phon	e Number:	713-410	0-0096			<b>-</b> '								
US EPA ID N		TXCESQ				-								
State ID No		CESQG				SIC Code	<u>:</u>	NA .						
	•				_	-								
SECTION 2:	Billing Infor	mation -		Same as A	bove									
	Angel Broth				<del></del>									
Address:	PO Box 57			··					_					
City:	Baytown				State:	TX		Zip:					-	77522
Contact:	Daytown				Jiate.	Title:		_ <del> </del>					<u>'</u>	77322
Phone Num	hor:					. Fax Num	hor					-		
Priorie Null	iber.					- Fax Null	ivei.							
SECTION 2.	General Des	crintian	of the We	cto										
SECTION 5:	General Des	cription	OI LITE WA	<u>sre</u>										
Name of M		Cross of Cl	ludas.											
Name of W		Sump Sl		14/4 - :										
Detailed De	scription of	Process G	enerating	waste:										
sump sluage	e from washr	ack opera	ations			-								
Di				4	ot l			n						
Physical Sta	=	Liquid			Sludge			Powder	_					
	$\checkmark$	Solid			Filter Cake		Ш	Combina	tion					
Color:	dark					Odor:		slight						
Specific Gra	vity (water=	1):	1-1	1		_		Density:	8.34-	8.4	lbs/ga	al		
								_	_					
Does this m	aterial conta	in any to	tai pheno	lic compo	unds?		Yes	Ľ	∐ No					
Does this m	aterial conta	in any pa	era substit	uted phe	nolic comp	ounds?			Yes	<b>✓</b>	No			
											_			
	e subject to t											Yes	<b>✓</b>	No
Answer "Ye	s" if your was	ste contai	ns benzen	e <b>AND</b> if 1	the SIC cod	le from yo	our fac	cility is one	e of the	follow	/ing:			
2812	2813	3	2816	2819	2821		2822	282	:3	2824		2833		2834
2835	2836	5	2841	2842	2843		2844	285	1	2861		2865		2869
2873	2874	ŀ	2876	2879	2891		2892	289	3	2896		2899		2911
3312	4953	3	4959	9511										
Layers:	Sin	gle-phase	. 🗹	Multi-	phase									
•		•		,	•									
Container T	ype:	Drum	☐ Tot	te 🗹 ·	Truck 🔲	Other (e	xplair	٦)						
						•	-							
Frequency:	☐ Weekly	□ Мо	nthly 🗹	Yearly [	One-Ti	ime								
	•			4										

		ous Waste" per nplete, sign and			Ye		No ached hereto			
If "Yes", Is it: D001 (Ignitable) D002 (Corrosive) D003 (Reactive)  Characteristic for Toxic Metals: D004 D005 D006 D007 D008 D009  D010 D011  Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)										
Cilaracteris	SLIC TOT TOXIC (	Jiganics: DU12	tiiru D045	(piease list a	ан инас арріу)					
		ed waste or mix st ALL applicab		e?	Ye	s 🗸	] No			
40 CFR 261	.33(e) or (f)?	duct or spill cle		_	⁄ <b>a "U" or "P" w</b> ☑ No	aste code u	nder			
Texas State	· Waste Code	Number:		CESQ603	1		_			
•	DOT Shipping				egulated mater					
Class:	NA	_UN/NA:	NA	_PG:	NA	RQ:	NA			
Flas	h Point	pl	Н	Reac	tive Sulfides	Reactive	e Cyanides	Sol	ids	
>	150 100	6-	9	0.43	mg/l	<0.25	mg/l	20-30	%	
Oil &	Grease	TO	C		Zinc	Co	pper	Nic	kel	
<1000	mg/l	>1000	<u>mg/l</u>	0	<u>mg/l</u>	0	mg/l	0	mg/l	
SECTION 4:	Physical and	Chemical Data				<del></del> .				
		MPONENTS TAI				CONCEN	TRATOIN		UNITS	
Th	ne waste cons	ists of the follo	wing mater	ials		Ranges are	acceptable		or %	
		Water				50	-70		%	
Sand Silt Rocks Asphalt 20.30								0/:		

Sand, Silt, Rocks, Asphalt	
Oil/Diesel	
Soap, Degreaser	

5-10

1-10

%

%

		este requires the	e use of specia	al protectiv	e equipment,	, please e	xplain.		
	uments, notes	pporting Docui , data and/or a Analytical 805	nalysis attach	ed to this fo	orm as part o	f the was	te		
	· ·	ilities bilities (if any):							
Laboratory	analysis of th	Knowledge Do e hazardous wa g generator kno	ste character	istics, listed	below, <b>WAS</b>	NOT PER	RFORMED		
TCLP Meta	ls:								
TCLP Volati	les:	X	·····						
TCLP Semi-	Volatiles:	X							
Reactivity:								-	
Corrosivity	:								
Ignitability	:								
	Waste Receipt	Classification U	nder 40 CFR 43	7 (Prtaining	to Pre-Treatm	<u>rent Requi</u>	<u>irements f</u>	or Centrali	zed Waste Treatment
<u>Facilities)</u>		al a wastewater complete this sec		sludge?			YES	✓ NO	
	PLEASE CHEC	K THE APPROPRI	ATE BOX. IF N	IO APPROPR	IATE CATEGOI	RY, GO TO	THE NEXT	PAGE.	
	Metal finishi Chromate wa Air pollution Spent anodiz Incineration Waste liquid Cyanide-cont Waste acids Cleaning, rins Vibratory del Alkaline and Used oils Oil-water em	oplating baths and ing rinse water and astes control blow dow ing solutions wastewaters mercury caining wastes ground bases with or sing, and surface burring wastewate acid solutions use	d sludges  In water and s  eater than 136  without meta preparation so eer ed to clean me	mg/l ils olutions from		g or phosp	ohating ope	erations	
	Lubricants								
	Coolants	المستعددالمستعدال		atrala	urooc				
F	☐ Contaminate☐ Used petrole	d groundwater ci um products	ean-up from p	etroieum so	urces				
F	Oil spill clear	-							
Ē	Bilge water	: =: <b> </b>							
	Rinse/wash v	vaters from petro	leum sources						

	Byproduct waste glycol  Wastewater from paint washes  Wastewater from adhesives and/or epoxies formulation
_	Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources
(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
<b></b>	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.  Cadmium: 0.2 mg/L  Chromium: 8.9 mg/L  Copper: 4.9 mg/L  Nickel: 37.5 mg/L
(3)	if the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.    Metals Subcategory   Organics Subcategory
SECTION 10	Additional instructions
Copper, Nick	t determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This to acceptance. The generator will be responsible for the cost of the analysis.
The information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the information the informatio	e: Generator's Certification  rition contained herein is based on generator knowledge and/or analytical data.  Fify that the above and attached description is complete and accurate to the best of lige and ability to determine that no deliberate or wilful omissions of compostion exist and that all known or suspected hazards have been disclosed. I certify that the issted are representative of all materials described by this document.
Authorized	Signature: RAIN Z Date: 6-3-08
Printed Nar	me/Title:
CES USE ON	LY (DO NOT WRITE IN THIS SPACE)
Compliance Date: Approvat Ni	Officer: Polling   Rejected   Rejected



# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

Disposal -\$0.50/gallon - \$1.50/foot,	Airmachine w/ operator-	\$110/hour, Field tech	- \$28.00/hour, PPE -	- \$30.00/høur, flex hose
7 2.50, .500,				
2 Contamination Limit	· (maximum limit hafara	surchagos annhyl:	· · · · · · · · · · · · · · · · · · ·	
None None	t (maximum limit before s	ourchages apply);		
3. Surcharge Pricing:				
None None			<u></u>	
			<del>,</del>	
4. Special Testing Requ	irements:			
None				
5. Treatment and Hand	lling Protocol:			
5. Treatment and Hand REDIRECT TO - 3	Republic			
6. Treated Wastewater	Discharge Subcategory:			
☐ Subcategory	v A ☐ Subcategory B	Subcategory C	<u>`</u>	



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):	
NA	
8. Management for Product Recovered/Recycled (if applicable)	
NA	
<u> </u>	

# Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

**CES Environmental Services** 

4904 Griggs Rd

Houston, TX 77021

Attn: Dana Carter

- CERTIFICATE OF RESULTS -

MES Lab#:

8050469

Client Sample ID:

Sump Sludge

**Extended ID:** 

PO #0508-45 / Angel Brothers

Sample Collect Date: 5/20/2008 @ 10:00:00 AM

Sample Receipt Date: 5/21/2008 @ 9:00:00 AM

Sample Type:

Phone: (713) 676-1460

(713) 676-1676

Fax.

Grab

Test Group / Method						
TCLP Metals (11) Method: SW-846 6010B	MDL_	RL	Result	Units	Analyst: JCA Date / Time	
Antimony	0.032	1	< 0.032	mg/L	5/23/2008 / 5:	38 PM
Arsenic	0.014	5	< 0.014	mg/L :	5/23/2008 / 5:	38 PM
Barium	0.0005	100	0.169	mg/L	5/23/2008 / 5:	38 PM
Beryllium	0.0005	0.08	0.0011	mg/L	5/23/2008 / 5;	38 PM
Cadmium	0.002	1	< 0.002	mg/L	5/23/2008 / 5:	38 PM
Chromium	0.002	5	0.013	mg/L	5/23/2008 / 5:	38 PN
Lead	0.005	5	< 0.005	mg/L	5/23/2008 / 5:	38 PN
Nickel	0.003	70	0.043	mg/L	5/23/2008 / 5:	38 PM
Selenium	0.024	1	0.058	mg/L	5/23/2008 / 5;	38 PN
Silver	0.002	5	< 0.002	mg/L	5/23/2008 / 5:	38 PN
I'CLP Mercury					Analyst: JA	
Method: SW-846 7470A	MDL_	RL	Result	Units	Date / Time	
Mercury	0.0002	0.2	< 0.0002	mg/L	5/22/2008 / 5:	21 PM
BTEX					Analyst; TFR	
Method: SW-846 8021B	MDL		Result	Units	Date / Time	
Benzene	0.05		< 0.05	mg/kg	6/2/2008 / 10	):20 Pl
Toluene	0.05		< 0.05	mg/kg	6/2/2008 / 10	):20 P
Ethyl benzene	0.05		< 0.05	mg/kg	6/2/2008 / 10	0:20 P
M+P-Xylene	0.05		< 0.05	mg/kg	6/2/2008 / 10	):20 P
o-Xylene	0.05		< 0.05	mg/kg	6/2/2008 / 10	0:20 P
Reactivity, Recoverable Hydroge					Analyst: CL	

MDL

0.25

Report Date: 03-Jun-08

Method: 7.3.3.2

Hydrogen Cyanide

Page 1 of 2

Date / Time

5/22/2008 / 3:00 PM

Units

mg/kg

Result

< 0.25

### - CERTIFICATE OF RESULTS -

MES Lab#:

8050469

Client Sample ID:

Sump Sludge

Extended ID:

PO #0508-45 / Angel Brothers

Sample Collect Date: 5/20/2008 @ 10:00:00 AM

Sample Type:

Grab

Sample Receipt Date: 5/21/2008 @ 9:00:00 AM

Reactivity, Recoverable Hydrogen S Method: 7.3.4.2	Sulfide MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Sulfide	0.25	0.43	mg/kg	5/23/2008 / 9:45 AM
Ignitability Method: SW-846 1010	MDL	Result	Units	Analyst: DB Date / Time
Flashpoint		>150	deg F	6/3/2008 / 8:55 AM
Corrosivity: pH Method: SW-846 9045	MDL	Result	Units	Analyst: JE Date / Time
РН		7.60	-	6/3/2008 / 7:06 AM
Total Petroleum Hydrocarbons Soli Method: TNRCC 1005	d MDL	Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	1	99	mg/kg	5/23/2008 / 4:25 AM
>C12 - C28 Hydrocarbons	8	117	mg/kg	5/23/2008 / 4:25 AM
>C28 - C36 Hydrocarbons	8	< 8	mg/kg	5/23/2008 / 4:25 AM
Total TPH	20	216	mg/kg	5/23/2008 / 4:25 AM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

John Keller, Ph.D., Lab Director

Tuesday, June 03, 2008

**Date** 

Report Date: 03-Jun-08

Page 2 of 2

8050469

### **MERCURY ENVIRONMENTAL SERVICES** QA/QC REPORT

ANALYTES	METHOD TPH1005	MB mg/kg		CCV %REC	MS %REC	MSD %REC	
C6-C12 C12-C28		< 4 < 8		104.3 107.1	96,5 98.9	106.8 110.3	
ANALYTES	METHOD EPA 602	MB mg/L		MS %REC	M\$D %REC	RPD	STD %REC
Benzene Toluene Ethylbenzene m+p Xylene o-Xylene		< 0.005 < 0.005 < 0.005 < 0.005 < 0.005	5	90.8 100.0 99.8 102.0 97.3	91:0 101:0 104:0 112:0 108:0	0.22 1.00 4.12 9.35 10.42	98.6 98.9 99.7 110.3 103.2
SURROGATE	SPIKE RECOVE	RY FOR	BTEX				% REC
4-Bromofluorok	penzene						95.4
ANALYTE		STD					
Flashpoint		82ºF					
ANALYTE	BUFFER 7.0	ORIG	DUP	RPD			
рН	7.0	7.60	7.60	0.00			
ANALYTE		ORIG mg/kg	DUP mg/kg	RPD			
Reactivity as H	ydrogen Sulfide	< 0.25	< 0.25	0.00			
ANALYTE		ORIG mg/kg	DUP mg/kg	RPD	STD %REC		

Mercury Environmental Services, Inc.

Reactivity as Hydrogen Cyanide < 0.25 < 0.25 0.00 110

8050469 Page 2

#### **QA/QC REPORT CONTINUED**

MES

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	LOW CHECK STD	ICS %REC
Antimony	< 0.032	103.8	98.8	4.89	< 0.032	96.5	118.0	96.4
Arsenic	< 0.005	100.3	91.9	8.72	< 0.005	98.3	106.0	90.4
Barium	< 0.002	101.0	97.6	3.48	< 0.002	92.6	92.4	86.1
Beryllium	< 0.002	90.9	95.9	5.36	< 0.002	92.6	93.6	93.5
Cadmium	< 0.001	95.3	91.9	3.58	< 0.001	8 <b>8</b> .1	91.6	83.4
<u>Chromium</u>	< 0.001	106.5	107.8	1.21	< 0,001	92.9	96.4	90,7
Lead	< 0.002	97.4	98.3	0.95	< 0.002	93.0	93.9	82.3
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0	100.0	
Nickel	< 0.001	103.0	104.0	0.97	< 0.001	94.3	95.2	85.3
Selenium	< 0.024	104.0	93.5	10,69	< 0.024	98.3	97.8	94.1
Silver	< 0.001	101.4	97.8	3.61	< 0.001	97.2	96.0	90.6

#### Standards Utilized:

BTEX: 5-point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene.

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank

I CS=Laboratory Control Standard CCV=Continuing Calibration Verification CCB=Continuing Calibration Blank Rec=Percent Recovery

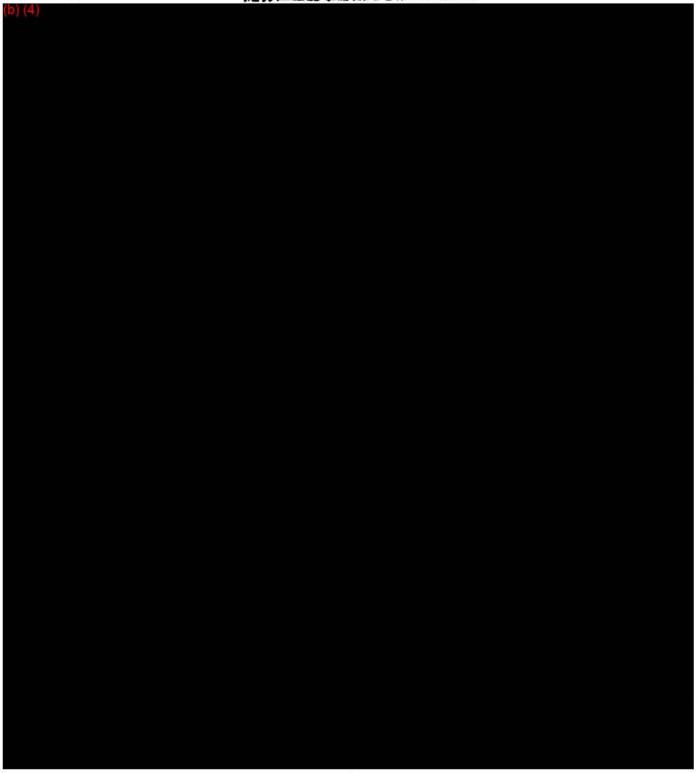
Signature: July John Keller / Labbratory Director

June 3, 2006

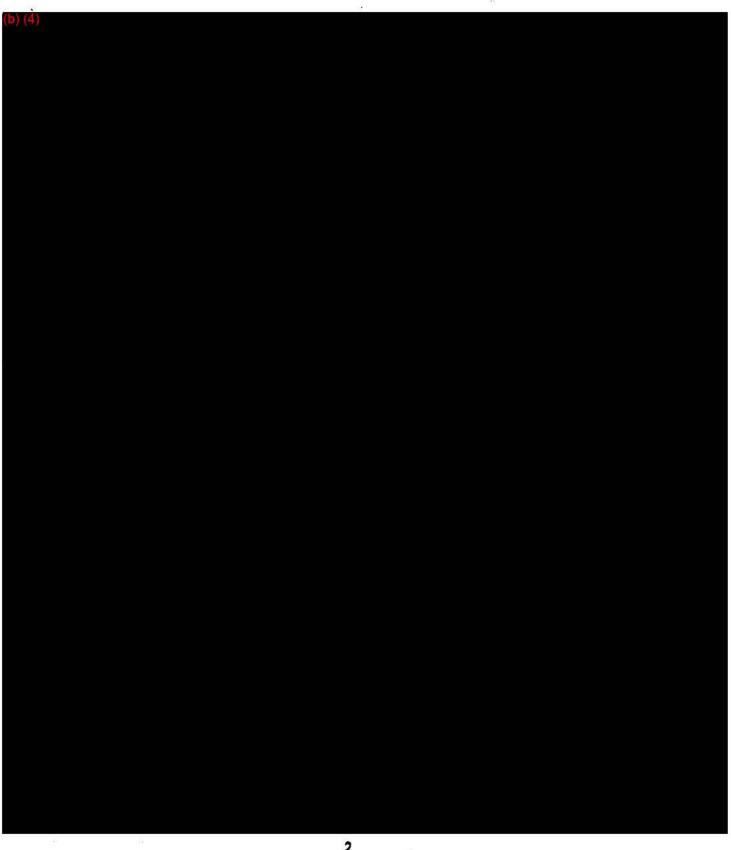
EPAHO108000055

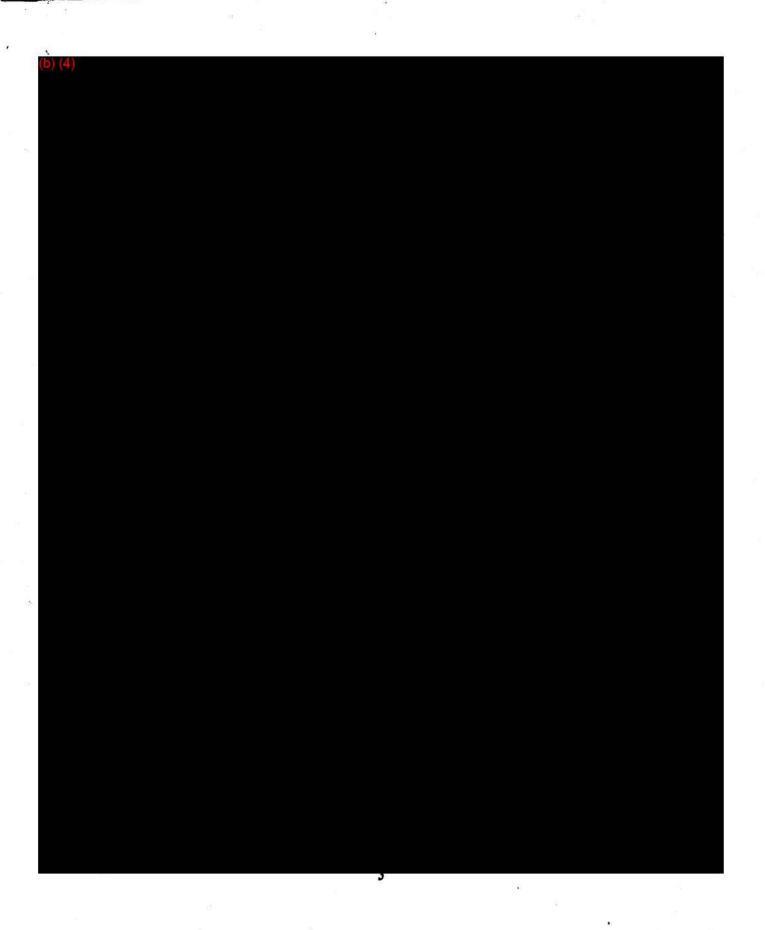
	COMPANY NAME: (BILL TO:) (ES ENVIRON MONTO)		1	ME	S		- C	MIAH	OF	CUS.	FODY	1-800-771-4MES (281) 476-4534
?	COMPANY ADDRESS: STATE ZIP		<u>,</u> 6:	lercu 913 Hw	ry E1 y. 225	viro Des	nme r Park	ntal TX 7	Ser 7536	vice	s	Fax (281)-476-4406
	CONTACT PERSON'S NAME: DUMO CONTACT			A	RAMET	ERS FO	OR AN	ALYSIS	,		/ /	PIEMARKS
	CONTACT PERSON'S PHONE: 113-748-9801 FAX #: 713-1676-	11011			- /					NUMBER OF COM	£ /	TURNAROUND TIME
										/4	<b>X</b>	Stureana
2	YOUR PROJECT NO.:  YOUR PROJECT NAME:  YOUR PROJECT NAME:  YOUR PROJECT NAME:	1 2	13	5/5	{/_	1+	/	/		/ 8	10 NO.	DETECTION LIMITS SPECIAL LIMITS REQUIPED
	PROJECT ADDRESS:			/ / ·	15	(A)	/	1	/	PER C	PRESERVATIONS	Yes No
١	YOUR SAMPLE DESCRIPTION GRAB/COMP. DATE TIME M	IATRIX	2	4	A	17	(	(	,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PAES	Please Circle one, if Yes, please describe below
		why	X	X	1	V						or include separate sheet detailing
	Chip surger was say were so		<del>-/-}</del>	~		$\mathcal{A}$						requirements.
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	PERSON TAKING SAMPLE SIGNATURE (& - Prim Name & by - Sign.):	RRUNO	UISHED	BY:		<del></del> _		DATE		TIME	REC	CEIVED BY:
6	Margare . While to			19	124	79	<del>9</del> 1	5-1	المروس	85		CAA
	RECEIVED BY:  (Signature)  DATE  TIME  RECEIVED BY: (Signature)	RELINO (Signatur		BY:				DATE		TIME	AEC	CEIVED BY:
Ľ	METHOD OF PAYMENT SHIPPED BY: COURIER					RECE	IVEO FO	R MES	BY:		l	DATE TIME
	[Signature] (Signature)					(Signe		1		/		5/2/05/0900
2	Sample Remainder Disposal	DI Re	quest L	ab To Di	spose O	I Ali San	nple Re	mainda	NS.			
C	□ Relum Sample Remainder To Glient Via	(Signatu	ita)							a	Date)	

MATERIAL SAFETY DATA SHEET



1









## Material Safety Data Sheet

Date of Preparation: 5/06

MSDS No. NR-134a

Boiling Range: -26.2 deg. F. @ 760 mm Hg.

Vapor Density (Air=1): 3.5%

### Section 1 - Chemical Product and Company Identification

Product Name: Refrigerant 134a. Part Number(s): NR-134a CAS Number: 811-97-2

Product Class: Automotive product

Manufacturer: Interdynamics, Inc. 560 White Plains Rd, Tarrytown N.Y.

Information Phone No. (Interdynamics): 718-499-0608 Emergency Phone No. (CHEMTREC): 800-424-9300

### Section 2 - Composition/Information on Ingredients

Ingredient Name	CAS Number	OSHA TWA	ACGIH TLV		
1,1,1,2- Tetrafluoroethane	811-97-2		•		
Ingredients no	t precisely identified are pro	oprietary or non-hazardo	tis.		

#### Section 3 – Physical and Chemical Properties

Physical State: Gas and liquid under pressure.

Appearance/Odor: Ethereal and Faint Sweetish Odor.

Volatile: N/A

Specific Gravity (@C20 °C): N/A

Evaporation Rate(Butyl Acetate=1): Gas>1

Vapor Pressure: Gas: 85.8 mm Hg. @ 70 deg. F. Liquid: <1

### Section 4 - Fire Fighting Measures

Flash Point: No Flash Point.

Flash Point Method: N/A

LEL: N/A

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog, Sand/Earth.

Unusual Fire or Explosion Hazards: This material may become flammable when mixed with air under pressure and exposed to strong ignition sources. Contact with certain reactive metals may result in formation of explosive or exothermic reactions under specific conditions (e.g., very high temperatures and/or appropriate pressures). Special Fire-Fighting Procedures: Firefighters must wear self-contained breathing apparatus with full face-piece operated in pressure demand or positive pressure mode. Use full turnout gear.

#### Section 5 - Stability and Reactivity

Stability: Stable

Polymerization: Will not occur.

Incompatibilities & Conditions to Avoid: Do not mix with oxygen or air above atmospheric pressure. Any source of high temperature such as lighted eigarettes, flames, hot spots, welding may yield toxic and/or corrosive decomposition products. Materials to Avoid: At very high temperatures and/or appropriate pressures, freshly abraded aluminum surfaces may cause strong exothermic reaction; Also avoid, chemically active metals, potassium, calcium, powdered aluminum, magnesium, and zinc. Avoid strong oxidizing agents.

Hazardous Decomposition Products: At high temperatures CO & CO2; HF & Carbonyl Halides such as Phosgene.

## Section 6 - Health Hazard Information

Primary Entry Routes: Eyes, dermal, inhalation and ingestion

MATERIAL SAFETY DATA SHEET (1)

01 /7 #

97313735176

.tra sord lagel 11:31:80-91-30

(2)

msds102

### MATERIAL SAFETY DATA SHEET CHEMBRITE

PRODUCT: CHEMBRITE PRODUCT#:

851011

**EFFECTIVE: 06/08/04** 

HMIS: REACTIVITY: 2

FLAMMABILITY: 0 HEALTH: 3 PERSONAL PROT: F

1. IDENTIFICATION:

MANUFACTURER......INDUSTRIAL CHEM-TEX, INC

EMERGENCY PHONE (800) 234-2458

TRADE NAME.......CHEMBRITE

CHEMICAL FAMILY......ACID BASED DETERGENT

2. REPORTABLE INGREDIENTS:

NAME

CAS#

OSHA PEL

**ACGIH TLV** 

2-BUTOXY ETHANOL\*

111-76-2 7664393

**25 PPM** N/A

**25 PPM** 3 PPM

**HYDROGEN FLUORIDE\*** SULFURIC ACID\*

. 7664939

1MG/M3

1 MG/M3

Note: This product contains the taxic chemicals marked with an \* subject to the reporting requirements of Section 313 of the emergency planning and community Right-To-Know Act of 1986 and of 400FR372.

3. PHYSICAL / CHEMICAL CHARACTERISTICS:

BOILING POINT (F)

212

VAPOR PRESSURE (mmHg)

>18

VAPOR DESTINY (AIR=1)

1

SOLUBILITY IN H20

100%

APPEARANCE/ODOR

RED LIQUID / ACID ODOR

SPECIFIC GRAVITY

1.10 (water=1)

4. FIRE AND EXPLOSION DATA

FLASH POINT

NONE

LOWER FLAME LIMIT

N/A HIGHER FLAME LIMIT

N/A

**EXTINGUISH MEDIA** 

NONE

UNUSUAL FIRE & EXPLOSION HAZARDS: NONE

SPECIAL FIRE FIGHTING PROCEDURE: NONE

#### CHEMBRITE...

### 5. HEALTH HAZARD DATA

Routes of Entry: Inhalation: YES

Skin: YES

Ingestion: YES

Health Hazards (Acute and Chronic): CAUSES SEVERE BURNS TO EYES & SKIN.

INHALATION: WILL IRRITATE MUCOUS MEMBRANE. INGESTION: MAY BE FATAL

IF SWALLOWED.

Carcinogenicity: NTP; NO IARC Monographs: NO OSHA Reg. NO

Medical conditions generally appravated by exposure: NONE KNOWN

#### 6. REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: REACTS WITH METALS TO

LIBERATE HYDROGEN.

'INCOMPATIBILITY (MATERIALS TO AVOID): SOME METALS, GLASS, CERAMICS.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: NONE KNOWN

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: N/A

### 7. SPECIAL PROTECTION

RESPIRATORY PROTECTION:

NONE

VENTILATION:

LOCAL EXHAUST:

ADEQUATE

MECHANICAL:

N/A SPECIAL:

N/A

OTHER:

N/A PROTECTIVE GLOVES:

**RUBBER GLOVES** 

**EYE PROTECTION:** 

**USE SPLASH MASK OR GOGGLES** 

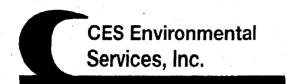
#### & SPECIAL HANDLING

Steps to be taken in case material is released or spilled: FLUSH WITH WATER & NEUTRALIZE WITH SODA ASH AND FLUSH TO CHEMICAL SEWER. DO NOT GET WATER IN CONTAINERS OF SULFURIC ACID-VIOLENT REACTION.

Waste Disposal Method: RINSE CONTAINER THOROUGHLY AND PLACE IN TRASH COLLECTION. DO NOT REUSE EMPTY CONTAINER.

Precautions to be taken in handling & storing: KEEP AWAY FROM CHLORATES, NITRATES, AND PERMANGANATES.

Other precautions: Observe proper industrial hygiene.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 6/4/2008

Dear Orval W Lewis

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2806

Expiration Date 6/4/2010

Generator: Targa Midstream Services LP

Address: 10319 Hwy 146 North

Mont Belvieu, TX 77580

#### Waste Information

Name of Waste: spent sodium hydroxide solution with ammonia (from LSNG u

TCEQ Waste Code #: Recycle

**Container Type:** 

#### **Detailed Description of Process Generating Waste:**

used in the low sulfur gasoline mercaptan conversion process of removing disulfide oil a or mercaptans, the caustic is used to scrub H2S from the stream. The ammonia is from the caustic feedstock stream.

**Color:** light to dark

Odor: strong ammonia

pH: 12.12.48

**Physical State:** 

Incompatibilities: acids

## Safety Related Data/Special Handling:

std ppe for high pH material with sulfides.

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
EPA ID Number: TXD008950461 ISWR Number:

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SECTION 1	: Gen	erato	r Infor	rmation											
Company:					;								•		
Address:			146 N												
City:		Mont Belvie					State:	TX		Zip:					77580
Contact:	Orval	Lewis	<u> </u>			<u> </u>	'	Title:		<u> </u>					
Phone Nun	nber:		281-	385-321	5			Fax N	amber:	281-385	3188				
24/hr Phon	e Num	ber:													
US EPA ID	No:		TXD	9806259	74										
State ID No	<b>:</b>		RRG	EN				SIC Co	ode:	NA					
														•	
SECTION 2						me as	<u>Above</u>								
Company:			tream	Services											
Address:	PO B	ox 10								<del></del>		·			
City:	Mont	Belvie	·u				State:	<u>TX</u>		_Zip:					77580
Contact:	Orval	Lewis						Title:		<del> </del>					
Phone Nun	iber:		281-	385-3215	5			_Fax Nu	ımber:	281-385-	3188		<del> </del>		
SECTION 3	: Gen	eral D	escri	otion of	the W	<u>aste</u>									
			_								•				
Name of W								n Ammor	na (Fro	m LSNG ı	unit)				
Detailed De								_							
used in the												nercaptar	ns, the cau	stic i	S
used to scru	b H2S	from	the str	eam. 11	ne am	monia i	s from the	caustic	eeasto	ck stream	·	····			
							Ol1			Danielan					
Physical St	ate:	<sup>[</sup>	Liqui				Sludge	1	닏	Powder	. 43		ノ		
			Solic	1			Filter Cal	ke		Combina	ation				
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Color:	light to	dark						Odor:		strong ar	mnoma	<u> </u>	<del>(</del>		
Specific Gr	aritre (s	watar	_1\·				1.16	2		Density:	0	a in	s/gal		_
Specific Gr	avity (	Walti	-17.				1.10	<u> </u>		Density.	7		oryai		
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Does this m	nateria	l cont	tain ar	ny nara (	suhsti	tisted n	henolic (	compour	nds?	[J]	Yes	∏ No	<b>1</b>		
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is the Wast	e euhi	act to	the h	enzene i	usete	onerat	ion NESI	1402 (40	CER E	Part 61 Si	ıhnart	FF)	☐ Yes	N	No
Answer "Yes	-							•			•	-		<u> </u>	140
2812	, yo	2813		2816		2819	282		2822	•		2824	2833		2834
2835		2836		2841		2842	284		2844			2861	2865		2869
2873		2874		2876		2879	289	-	2892		-	2896	2899		2911
3312		4953		4959		9511	209	•	2032	209	J	2000	2099		2911
3012		7000	•	4000		5511									
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Layers.		05	,.c p	200		in carter p	J11.000								
Container T	voe:		Drun	n 🗆	Tote	[J]	Truck [	Other (	explair	n)					
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Frequency:	☑ W	ekiv		Ionthiv	ПУ	early (	One-1	lime							
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Is this a US	EPA "	lazar	dous '	Waste"	per 40	CFR 26	31.3?	$\Box$	Yes	L2	] No				
if "Yes", th								Hazardo		·		tached he	ereto		
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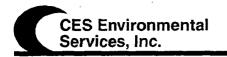
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	ic for Toxic N		☐ D00	.0 🗆 D01	05 🔲 D00	□ D003 (Re 06 □ D00		□ D00	9
Characterist	ic for Toxic C	organics: D01	2 thru D043	(please list	all that apply)				
Is this an "F' If "Yes", th	or "K" Liste en please lis			ie?	Ye	es _	☑ No		
40 CFR 261.3	•				v a "U" or "P" w ☑ No	vaste code u	nder		
Texas State	Waste Code I	Number:		Recycle		· · · · · · · · · · · · · · · · · · ·	<u>.</u> .		
Proper US D	OT Shipping I	Name:	Sodium Hy	droxide Sol	ution				
Class:	8	UN/NA:	UN1824	PG:	<u>II</u> .	RQ:	na		
Flash	Point	F	Н	Reac	tive Sulfides	Reactive	e Cyanides	So	lids
>150		12-1	12.48	0	mg/l	0	mg/l	<1	%
Oil & Grease		T	oc		Zinc	Со	pper	Nic	kel
0	<u>mg/l</u>	0	mg/l	0	mg/l	0	mg/l	0	mg/l

**SECTION 4:** Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Sodium Hydroxide Sulfide Solution	98-100	%
Ammonia	0-1	%
Solids	<1	%
Sodium Hydroxide Solution W Solface	5-70,800	ppm

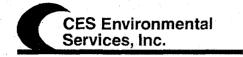
	i: Attached Supporting Documents Iments, notes, data and/or analysis attached to this form as p ckage. MSDS	part of the waste	
approvarpa	orage. <u>mose</u>		
	<del></del>	<del></del>	
			_
	: Incompatibilities  LL incompatibilities (if any):		
			_
SECTION 8	: Generator's Knowledge Documentation		
Laboratory a	analysis of the hazardous waste characteristics, listed below,	WAS NOT PERFORMED	
•	the following generator knowledge:		
TOLD Matel			
TCLP Metals	<u> </u>		_
TCLP Volatil			_
TCLP Semi-		~	_
Reactivity:	X		_
Corrosivity:	X		_
Ignitability:	X		_
SECTION O	Waste Receipt Classification Under 40 CFR 437 (Prtaining to	Pro-Treatment Dequirements for Controlized Waste	
Treatment Fa		The Treatment Frequirements for Centralized Waste	
	Is this material a wastewater or wastewater sludge?	☐ YES ☑ NO	
	If 'Yes', complete this section.		
	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRI	ATE CATEGORY, GO TO THE NEXT PAGE.	
14 4 4 2 2 1			
	ategory: Subpart A		
	Spent electroplating baths and/or sludges	·	
	Metal finishing rinse water and sludges Chromate wastes		
	Air pollution control blow down water and sludges		
	Spent anodizing solutions		
	Incineration wastewaters		
	Waste liquid mercury		
	Cyanide-containing wastes greater than 136 mg/l		
י 🗖	Waste acids and bases with or without metals		
	Cleaning, rinsing, and surface preparation solutions from electrop	ating or phosphating operations	
	Vibratory deburring wastewater		
LI.	Alkaline and acid solutions used to clean metal parts or equipmen	t	
Oile Subcate	gory : Subpart B		
	Used oils		
	Oll-water emulsions or mixtures		
	Lubricants		
	Coolants		
	Contaminated groundwater clean-up from petroleum sources		
u	Used petroleum products		
	Oil spill clean-up		
	Bilge water		
F	Rinse/wash waters from petroleum sources		

interceptor wastes	
☐ Off-specification fuels	
Underground storage remediation waste	
☐ Tank clean-out from petroleum or oily sources	
☐ Non-contact used glycols	
Aqueous and oil mixtures from parts cleaning operations	
☐ Wastewater from oil bearing paint washes	
Organics Subcategory: Subpart C	
Landfill leachate	
Contaminated groundwater clean-up from non-petroleum sources	
Solvent-bearing wastes	
Off-specification organic product	
Still bottoms	
Byproduct waste glycol	
Wastewater from paint washes	
Wastewater from adhesives and/or epoxies formulation	
Wastewater from organic chemical product operations	
☐ Tank clean-out from organic, non-petroleum sources	
(1)	
If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.	
(2)  If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in	
excess of the values listed below, the waste should be classified in the metals subcategory.	
Cadmium: 0.2 mg/L	
Chromium: 8.9 mg/L	
Copper: 4.9 mg/L	
Nickel: 37.5 mg/L	
(3)	
If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium,	
copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.	
Metals Subcategory	
☐ Oils Subcategory	
☐ Organics Subcategory	
SECTION 10 Additional Instructions	
If you have the second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a second to be a secon	
If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium	
Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. The	IS
will be prior to acceptance. The generator will be responsible for the cost of the analysis.	
SECTION 11: Generator's Certification	
The information contained herein is based on	
I hereby certify that the above and attached description is complete and accurate to the best of	
my knowledge and ability to determine that no deliberate or willful omissions of compostion	
properties exist and that all known or suspected hazards have been disclosed. I certify that the	
materials tested are representative of all materials described by this document.	
materials tested are representative draw materials described by this document.	مــ
Authorized Signature: The few Date: 6-4-08	<u> </u>
Authorized Signature: Date: Date:	<u>,</u>
$\mathcal{O}(\mathcal{A})$	
Printed Name/Title: Ricky Ray / Jechnieian	
CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
oct doc one. Bo not white in this of Ace,	
Daniel Land Company (2) 1 6 American	
Compliance Officer: Yelful Q	
Date: 6-4-08 Approved Rejected	
Approval Number: 2806	



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Dase Frieing (meidaning freighte).
\$350/load freight Management fee-\$.50/ged
Marajement fel-\$,50/ged
2. Contamination Limit (maximum limit before surchages apply):
Solicis - < 196
CIRCO 176
·
3. Surcharge Pricing:
and fire solids > 1% and stoppel
4. Special Testing Requirements:
Test for pH, donsity, Sulfides, Sodium blydropide %.
5. Treatment and Handling Protocol:
Removel of the Ammonia gas by air sparging. Capture the amnonia gasses into a water souther w/ a pH ot about 4.0. Final treated Caustic-Sulfide liquid is a good NaSH product. The amnoniated scrubber
ind a water souther w/ a hot about 40 Final treated Caustic-
S. Dido liquidisa soul NaSH moduet. The amnoniated scrubber
water will need to process to system 1.
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C
Subcategory A Subcategory B Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for	<b>Product Reco</b>	vered/Recycled (if applicable	le):	
NA				
8. Manager	ment for Produ	uct Recovered/Recycled (if a	applicable)	
NA				
				4 · 4

## Interim Report of Analysis 2008-006911-DRPK

Intertek Caleb Brett 1114 Seaco Avenue Deer Park, TX 77536 Ph: (713) 844 - 3200 Fax: (713) 844 - 3330

Client: Targa Resources, Inc.

Date Requested: 05/21/2008

Contact: Mr. Orval Lewis

Date Received: 05/21/2008

Client Ref. No.:

Collected By: Client

Client Sample Description	Product
Spent Caustic Trailer From LSNG. 05/21/08	Water

Sample ID

2008-006911-DRPK-001 Water

#### Sample Results

Sample ID: 2008-006911-DRPK-001 Date Sampled: 05/21/2008

Sample Description: Spent Caustic Trailer From LSNG. 05/21/08 Date Received: 05/21/2008

Product:	Water	Date Analyzed: 05/21/2008		
Method	Test	Results	Units	
ASTM D5623	H2S	19.2	ppm (Wt)	
	cos	5.4	ppm (Wt)	
	Carbon Disulfide	33.0	ppm (Wt)	
	Methyl Mercaptan	<0.1	ppm (Wt)	
	Ethyl Mercaptan	2.5	ppm (Wt)	
•	Isopropyl Mercaptan	<0.1	ppm (Wt)	
	n-Propyl Mercaptan	<0.1	ppm (Wt)	
	tert-Butyl Mercaptan	<0.1	ppm (Wt)	
	sec-Butyl Mercaptan	<0.1	ppm (Wt)	
	Isobutyl Mercaptan	<0.1	ppm (Wt)	
	n-Butyl Mercaptan	<0.1	ppm (Wt)	
	Ethyl Methyl Sulfide	<0.1	ppm (Wt)	
	Thiophene	<0.1	ppm (Wt)	
	Tetra-Hydro Thiophene	<0.1	ppm (Wt)	
	2-Methyl Thiophene	<0.1	ppm (Wt)	
	3-Methyl Thiophene	<0.1	ppm (Wt)	
	Dimethyl Sulfide	<0.1	ppm (Wt)	
	Diethyl Sulfide	<0.1	ppm (Wt)	
	Dimethyl Disulfide	<0.1	ppm (Wt)	
	Diethyl Disulfide	<0.1	ppm (Wt)	
	Benzothiophene	<0.1	ppm (Wt)	

## Interim Report of Analysis

## 2008-006911-DRPK

Sample ID: 2008-006911-DRPK-001

Date Sampled: 05/21/2008

Sample Description: Spent Caustic Trailer From LSNG. 05/21/08

Date Received: 05/21/2008

Product: Water

Date Analyzed: 05/21/2008

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Method	Test	Results	Units
HTM_G35	NOTE	As nitrogen	
	Ammonia in LPG	10739	ppm (Wt)
	Unknown I	601	ppm (Wt)
	Unknown 2	242	ppm (Wt)
	Unknown 3	103	ppm (Wt)

This report has been reviewed for accuracy, completeness, and comparison against specifications when available. The reported results are only representative of the samples submitted for testing and are subject to confirmation upon completion of the final report. This report shall not be reproduced except in full without written approval of the laboratory.

Laboratory Review	Reported By	
Date:	Date:	

Intertek Caleb Brett

1114 Seaco Avenue, Deer Park, TX 77536 Ph: (713) 844 -3200, Fax: (713) 844 - 3330, Email: dptechctr@intertek.com, www.intertek-cb.com

Page 2 of 2



# Material Safety Data Sheet Sodium hydrosulfide solution

MSDS Number 8000TDC (Revised: 1/15/03) CHEMICAL PRODUCT and COMPANY IDENTIFICATION Section 1: 1.1 Product Name ......Sodium hydrosulfide solution Chemical Family ...... Inorganic salt solution Synonyms ...... KI-300 depressant, NaHS, sodium hydrogen sulfide Formula ..... NaHS 1.2 Manufacturer ......Tessenderlo Davison Chemicals 1916 Farmerville Highway Ruston, Louisiana 71270 Information ...... (318) 242-5305 1.3 Emergency Contact ..... (800) 877-1737 (Tessenderlo Kerley) (800) 424-9300 (CHEMTREC) COMPOSITION, INFORMATION ON INGREDIENTS Section Chemical Ingredients (% by wt.) 2.1 Sodium hydrosulfide CAS #:16721-80-5 Water 55-80% CAS #:7732-18-5 (See Section 8 for exposure guidelines)

Section 3: HAZARDS IDENTIFICATION

NFPA: Health - 3 Flammability - 2 Reactivity - 1

#### **EMERGENCY OVERVIEW**

Warning: Solution is highly alkaline
Contains hydrogen sulfide, a highly toxic gas.
Eye contact will cause marked eye irritation and possibly severe corneal damage.
Skin contact will result in irritation and possible corrosion of the skin.
Ingestion will irritate/burn mouth, throat and gastrointestinal tract. Contact with stomach acid will cause hydrogen sulfide vapors to be released.
Heating or acid will cause hydrogen sulfide gas to evolve.

#### Section 3: HAZARDS IDENTIFICATION, Cont.

#### 3.1 POTENTIAL HEALTH EFFECTS

EYE: Contact with the eyes will cause marked eye irritation and possibly severe corneal damage.

**SKIN CONTACT:** Contact with the skin will cause skin irritation or burning sensation. Prolonged contact will result in corrosion of the skin.

SKIN ABSORPTION: Absorption is unlikely to occur.

**INGESTION:** Ingestion will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved.

**INHALATION:** Product solution and vapors contain highly toxic hydrogen sulfide gas. Exposure to this gas causes, headaches, nausea, dizziness and vomiting. Continued exposure can lead to loss of consciousness and death..

CHRONIC EFFECTS/CARCINOGENICITY:

Not listed as a carcinogen by NTP, IARC or OSHA.

#### Section 4: FIRST AID MEASURES

- **4.1** EYES: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to insure thorough flushing of the entire area of the eye. Obtain immediate medical attention.
- **4.2 SKIN:** Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Obtain immediate medical attention
- **4.3 INGESTION:** DO NOT INDUCE VOMITING. If victim is conscious, immediately give 2 to 4 glasses of water. If vomiting does occur, repeat fluid administration. Obtain immediate medical attention.
- **4.4 INHALATION:** Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start mouth to mouth resuscitation. If heart has stopped beating, external heart massage should be applied. Obtain immediate medical attention.

#### Section 5: FIRE FIGHTING MEASURES

#### 5.1 FLAMMABLE PROPERTIES

FLASH POINT: Not flammable

METHOD USED: NA

5.2 FLAMMABLE LIMITS

Hydrogen sulfide

LFL: 4%

UFL: 44%

- 5.3 EXTINGUISHING MEDIA: Water spray or foam or as appropriate for combustibles involved in fire.
- **5.4 FIRE & EXPLOSIVE HAZARDS:** Solution is non-flammable. However if these solutions are exposed to heat or acids, hydrogen sulfide will be released and may form explosive mixtures with air (see above).

Keep containers/storage vessels in fire area cooled with water spray. Heating may cause the release of hydrogen sulfide vapors.

Section			JRES (Con	

**5.5 FIRE FIGHTING EQUIPMENT:** Because of the possible presence of toxic gases and the corrosive nature of the product, wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### Section 6: ACCIDENTAL RELEASE MEASURES

- **6.1 Small releases:** Confine and absorb small releases on sand earth or other inert absorbent. Oxidize residual reactive sulfides with a weak (3-5%) hydrogen peroxide solution.
- **6.2 Large releases:** Wear proper protective equipment. Confine area to qualified personnel. Shut off release if safe to do so. Dike spill area to prevent runoff into sewers, drains (potential explosive mixtures of hydrogen sulfide in confined spaces) or surface waterways (potential aquatic toxicity). Recover as much of the solution as possible. Treat remaining material as a small release (above).

#### Section 7: HANDLING and STORAGE

- **7.1 Handling:** Wear proper protective equipment (See Section 8). Avoid breathing product vapors. Avoid contact with skin and eyes. Use only in a well ventilated area. Dilute product only in enclosed containers. Wash thoroughly after handling.
- **7.2 Storage:** Store in well ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures [<80° F (27° C)]. (See Section 10.4 for materials of construction)

#### Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

- **8.1 RESPIRATORY PROTECTION:** If working near open container or storage vessel opening or open tank truck dome cover, wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent).
- **8.2 SKIN PROTECTION:** Neoprene rubber gloves, chemical suit and boots should be worn to prevent contact with the liquid. Wash contaminated clothing prior to reuse. Contaminated leather shoes cannot be cleaned and should be discarded.
- 8.3 EYE PROTECTION: Chemical goggles and a full face shield.
- 8.4 EXPOSURE GUIDELINES:

**OSHA** 

ACGIH

Hydrogen sulfide

TWA STEI

TLV STEL

**8.5 ENGINEERING CONTROLS:** Use adequate exhaust ventilation to prevent inhalation of product vapors. Where feasible scrub process or storage vessel vapors with caustic solution. Maintain eyewash/safety shower in areas where chemical is handled.

## Section 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 APPEARANCE:

Yellow to dark green liquid.

9.2 ODOR:

Strong hydrogen sulfide (rotten egg) odor.

9.3 BOILING POINT:

253 °F(122.8 °C) - 269 °F (131.7 °C)

9.4 VAPOR PRESSURE:

17 mm Hg @ 68 °F (20 °C)

9.5 **VAPOR DENSITY:** (Air = 1.0)

1.17

9.6 SOLUBILITY IN WATER:

Complete

9.7 SPECIFIC GRAVITY:

1.152 - 1.303 (9.6 - 10.9 lbs/gal)

9.8 FREEZING POINT:

0° F (-17.8° C) - 20% 56° F (13.3° C) - 45%

9.9 pH:

11.5 - 12.5

9.10 VOLATILE:

Not applicable

#### Section 10: STABILITY and REACTIVITY

10.1 STABILITY: This is a stable material

10.2 HAZARDOUS POLYMERIZATION: Will not occur.

- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Heating this product will evolve hydrogen sulfide. Fire conditions will also cause the production of sulfur dioxide. Hydrogen sulfide (4-44%) may form flammable mixtures with air.
- 10.4 INCOMPATIBILITY: Acids will cause the release of highly toxic hydrogen sulfide. Sodium hydrosulfide solution is not compatible with copper, zinc, aluminum or their alloys (i.e. bronze, brass, galvanized metals, etc.). Corrosive to steel above 150° F (65.5° C). These materials of construction should not be used in handling systems or storage containers for this product. (SEE Section 7.2, Storage)

#### Section 11: TOXICOLOGICAL INFORMATION

11.1 ORAL: Data not available

11.2 DERMAL: Data not available

11.3 INHALATION:

INH-RAT LC<sub>50</sub>: 444 ppm (hydrogen sulfide) INH-MOUSE LC<sub>50</sub>: 1,500 mg/m<sup>3</sup> 18 minutes

INH-RAT LC<sub>50</sub>: 1,500 mg/m<sup>3</sup> 14 minutes

11.4 CHRONIC/CARCINOGENICITY: No evidence available

11.5 TERATOLOGY: Data not available

11.6 REPRODUCTION: Data not available

11.7 MUTAGENICITY: Data not available

#### ECOLOGICAL INFORMATION Section 12:

Static acute 96 hour-LC50 for mosquito fish is 206 mg/L. (Tlm - fresh water)

LC<sub>50</sub> fly inhalation 1,500 mg/m<sup>3</sup>, 7 minutes

TL<sub>m</sub> Gammarus 0.84 mg/L, 96 hours (hydrogen sulfide)

TL<sub>m</sub> Ephemera 0.316 mg/L, 96 hours (hydrogen sulfide)

TL<sub>m</sub> Flathead minnow 0.071 – 0.55 mg/L @ 6-24°C, 96 hour flow through bioassay (hydrogen sulfide) TL<sub>m</sub> Bluegill 0.0090 – 0.0140 mg/L @ 20-22°C, 96 hour flow through bioassay (hydrogen sulfide)

TL<sub>m</sub> Brook trout 0.0216 - 0.0308 mg/L @ 8-12.5°C, 96 hour flow through bioassay (hydrogen sulfide)

#### Section 13: **DISPOSAL CONSIDERATIONS**

If released to the environment for other than its intended purpose, this product contains some reactive sulfides which may be in sufficient quantity to meet the definition of a D003, hazardous waste.

#### Section TRANSPORT INFORMATION

14.1 DOT Shipping Name: Corrosive liquids, toxic, n.o.s.

14.2 DOT Hazard Class:

14.3 UN/NA Number: UN2922

UN2949 (IMDG - over water)

14.4 Packing Group:

14.5 DOT Placard:

Corrosive

14.6 DOT Label(s):

Corrosive

Toxic

14.7 IMO Shipping Name:

Sodium hydrosulphide solution

14.8 RQ (Reportable Quantity):

5,000 lbs (2268 Kg) 100% basis

[2,604 gal (20%) 1,019 gal (45%)]

14.9 RR STCC Number:

28-123-33/49-352-04 (international)

#### Section 15: REGULATORY INFORMATION

15.1 OSHA: This product is listed as a hazardous material under criteria of the Federal

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

15.2 SARA TITLE III: a.

EHS (Extremely Hazardous Substance) List:

No

<b>b.</b>	Section 311/312, (Tier I,II) Categories:	Immediate (acute) Fire Sudden release Reactivity Delayed (chronic)	Yes Yes No Yes No
C.	Section 313 (Toxic Release Report-For	m R):	No
<b>d.</b>	TPQ (Threshold Planning Quantity):		No
5.3 CERCLA/SUPERFUND:	RQ (Reportable Quantity)		5,000 lbs (2270 Kg)
5.4 TSCA (Toxic Substance C	ontrol Act) Inventory List:		Yes
5.5 RCRA (Resource Conserv	ation and Recovery Act) Status:		D003 (See Section 13)
5.6 WHMIS (Canada) Hazard	Classification:		E, D1
5.7 DOT Hazardous Material:	(See Section 14)		Yes
5.8 CAA Hazardous Air Polluta	ant (HAP)		No

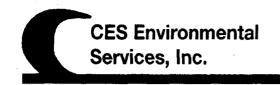
Section 16: OTHER INFORMATION

REVISIONS: The entire MSDS was reformatted to comply to ANSI Standard Z400.1-

1993.

Revised Sections 1.1, 8.3, 11, 12, 5/7/02 Revised pH range in Section 8, 6/19/02 Revised shipping info & RQ data, 1/15/03

THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND OSHA, ANSI, NFPA, DOT, ERG, AND CHRIS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE MATERIAL SAFETY DATA SHEETS PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 6/4/2008

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2807

Expiration Date 6/4/2010

Generator: Williams Brothers 1550 West Freeway

Address: 1550 West Freeway

Vidor, TX

#### Waste Information

Name of Waste: Dirt contaminated w/diesel

TCEQ Waste Code #: CESQ4891

Container Type:

roll off

**Detailed Description of Process Generating Waste:** 

From spill/facility regular maintenance. Unused low sulfur diesel from filling area.

Color: dark

Odor: diesel

pH: neutral

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.

SP



4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676

http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948

U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1:	Generat	or In	formatio	<u>on</u>											
Company:			thers Co	nstruct	on			_							
Address:	1550 W	est F	reeway												
City:	Vidor				**	State:	TX		_Zip:						
Contact:	Kevin						Title:								
Phone Num			832-309	-4285			Fax Nu	ımber:							
24/hr Phon		r:													
US EPA ID N			TXCESQ	<u> </u>											
State ID No:	:		CESQG				SIC Co	de:							
SECTION 2:	Billing In	forn	nation -		Same as	Above									
Company:	CKG Serv	vices	, LLC												
Address:	10707 H	one	a Egypt R	d.											
City:	Montgo	mery	,			State:	TX		Zip:				77316		
Contact:	Zac McK	augl	nan			_	Title:		- Presiden	nt					
Phone Num	ber:		281-541	-4829			Fax Nu	ımber:	936-756	-1226					
SECTION 3:		Desc			/aste ed w/dies	sel									
Detailed De	scription	of P	rocess G	enerati	ng Waste	;	from s	pill/faci	lity regula	r maint	enance	<u>:</u>			
UN 1852	λ 1.	שש	SILE	, V-7	Dresel	from	(F:1	اجمد	aren.						
Physical Sta		<u> </u>	Liquid Solid			Sludge Filter C	ake Odor:		Powder Combina	ation					
Color:	dark					-	Odor:		diesel						
Specific Gra	vity (wat	er=1	):	_	na		<del></del> .		Density:		a_	lbs/ga	al		
Does this ma	aterial co	ntai	n any tot	al pher	nolic com	oounds?		Yes	[	☑ No					
Does this m	aterial co	ntai	n any pa	ra subs	tituted pl	enolic co	mpounds?	•		Yes	~	No			
Is the Waste	•				-		<u>-</u>		-				Yes	<b>v</b>	No
Answer "Yes	if your v	wast	e contair	is benze	ene <b>AND</b> i				•			ing:			
2812		813		2816	2819		321	2822			2824		2833		2834
2835		836		2841	284		343	2844			2861		2865		2869
2873		874		2876	287		891	2892	289	93	2896		2899		2911
3312	4	953		4959	951	1									
Layers:	<b>V</b>		e-phase			:i-phase				1					
Container Ty	уре:		Drum	□ т	ote [	] Truck	✓ Other (	(explair	n 201	1 pof	7				
Frequency: Quantity:	☐ Wee	kly )	☑ Mon	thly [	Yearly	☐ One	e-Time								

Is this a USEPA "Hazardo If "Yes", then please fil	us Waste" per 40CFR 261.3 Il out the UHC Form	?	☐ Yes	ANO		
Characteristic for Toxic N		D002 (Cor D009 D01:	5 □ D006 1	D003 (Reactive)	008 🗌 D009	
	d waste or mixed with one?	···-	Yes	ŊNo		
Is this a commercial prod 40 CFR 261.33(e) or (f)? If "Yes", then please lis	luct or spill cleanup that wo Ye t ALL applicable codes:		a "U" or "P" wa No	ste code under		
Texas State Waste Code I	Number:	CESQ4891	·			
Proper US DOT Shipping Class:		ous/non-D PG:	OT waste 5%1.	RQ: No		
	LINI/NIA.	PG:	ive Sulfides	PO.	s Solid	
Class:	UN/NA:	PG:	_ ns-	RQ: W	s Solid	ls %
Flash Point >120 DD Oil & Grease	pH na ntwo	PG : React	ive Sulfides  mg/l Zinc	Reactive Cyanide  0 mg/l  Copper	<del></del>	%
Flash Point	DN/NA: pH	PG : React	ive Sulfides mg/l	Reactive Cyanide: 0 mg/l	100	%
Flash Point  >120  Oil & Grease  >150  SECTION 4: Physical and 0	pH  TOC  na  mg/l  Chemical Data	PG : React	ive Sulfides  mg/l Zinc	Reactive Cyanide:  0 mg/l  Copper  na mg/l	100 Nicke	% el mg/l
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  TOC  na  Chemical Data	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide:  0 mg/l  Copper  na mg/l  CONCENTRATOIN	100 Nicke	% el mg/l units
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  PA NTWO  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide:  0 mg/l  Copper  na mg/l  CONCENTRATOIN  Ranges are acceptable	100 Nicke	% mg/l mg/l  UNITS or %
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  na ntwo  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials dirt	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide  0 mg/l  Copper  na mg/l  CONCENTRATOIN Ranges are acceptable 85-100	100 Nicke	% mg/l mg/l  UNITS or % %
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  PA NTWO  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide:  0 mg/l  Copper  na mg/l  CONCENTRATOIN  Ranges are acceptable	100 Nicke	% mg/l mg/l  UNITS or %
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  na ntwo  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials dirt	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide  0 mg/l  Copper  na mg/l  CONCENTRATOIN Ranges are acceptable 85-100	100 Nicke	% mg/l mg/l  UNITS or % %
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  na ntwo  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials dirt	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide  0 mg/l  Copper  na mg/l  CONCENTRATOIN Ranges are acceptable 85-100	100 Nicke	% mg/l mg/l  UNITS or % %
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  na ntwo  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials dirt	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide  0 mg/l  Copper  na mg/l  CONCENTRATOIN Ranges are acceptable 85-100	100 Nicke	% mg/l mg/l  UNITS or % %
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  na ntwo  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials dirt	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide  0 mg/l  Copper  na mg/l  CONCENTRATOIN Ranges are acceptable 85-100	100 Nicke	% mg/l mg/l  UNITS or % %
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  na ntwo  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials dirt	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide  0 mg/l  Copper  na mg/l  CONCENTRATOIN Ranges are acceptable 85-100	100 Nicke	% mg/l mg/l  UNITS or % %
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  na ntwo  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials dirt	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide  0 mg/l  Copper  na mg/l  CONCENTRATOIN Ranges are acceptable 85-100	100 Nicke	% mg/l mg/l  UNITS or % %
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  na ntwo  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials dirt	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide  0 mg/l  Copper  na mg/l  CONCENTRATOIN Ranges are acceptable 85-100	100 Nicke	% mg/l mg/l  UNITS or % %
Flash Point  >120  Oil & Grease  >150() mg/l  SECTION 4: Physical and COM	pH  na ntwo  TOC  na mg/l  Chemical Data  IPONENTS TABLE  sts of the following materials dirt	React 0	ive Sulfides  mg/l  Zinc  mg/l	Reactive Cyanide  0 mg/l  Copper  na mg/l  CONCENTRATOIN Ranges are acceptable 85-100	100 Nicke	% mg/l mg/l  UNITS or % %

SECTION 5: Safety Rel		the use of sp	pecial prote	ective equipm	ent, please	explain.	
<u> </u>							
SECTION 6: Attached State and List all documents, not approval package.			tached to th	nis form as pa	rt of the wa	ste	
SECTION 7: Incompati Please list ALL incompa oxidizers		у):					
SECTION 8: Generator Laboratory analysis of t based upon the followi	the hazardous	waste chara		sted below, <b>W</b>	/AS NOT PE	RFORMED	
TCLP Metals:	x	<del></del>					
TCLP Volatiles:	X	<del></del>		<del> </del>		<del>-</del>	
TCLP Semi-Volatiles:	X			.,-	<del></del>		<del></del>
Reactivity:	X	<del></del>					
Corrosivity: Ignitability:	x x	<del></del>					
SECTION 9: Generator The information contai I hereby certify that the my knowledge and abil properties exist and the materials tested are re	ned herein is le above and at ity to determi at all known o	pased on ttached descr ne that no de r suspected h	ription is co eliberate or nazards hav	willful omissi e been disclos	ccurate to the ons of comp sed. I certify	ne best of postion	cal data.
Authorized Signature:		/				Date:	6/3/2008
Printed Name/Title:	Zac MeKau	ghan		<del></del>		<del></del>	
CES USE ONLY (DO NOT	WRITE IN THI	IS SPACE)	1 d				
Date: <u>6-4-08</u>		Approved	d	Rejected			
Approval Number:	_ 15	'n∫					

### SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge?
If 'Yes', complete this section.

☐ YES	₩ ио

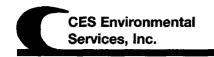
### PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

<u>Metals Subcategory</u> : Subpart A
Spent electroplating baths and/or sludges
Metal finishing rinse water and sludges
Chromate wastes
Air pollution control blow down water and sludges
Spent anodizing solutions
☐ Incineration wastewaters
☐ Waste liquid mercury
Cyanide-containing wastes greater than 136 mg/l
Waste acids and bases with or without metals
$\square$ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
☐ Vibratory deburring wastewater
Alkaline and acid solutions used to clean metal parts or equipment
Oils Subcategory: Subpart B
Used oils
Oil-water emulsions or mixtures
Lubricants
Coolants
Contaminated groundwater clean-up from petroleum sources
Used petroleum products
Uil spill clean-up
☐ Bilge water
Rinse/wash waters from petroleum sources
Interceptor wastes
Off-specification fuels
Underground storage remediation waste
Tank clean-out from petroleum or oily sources
Non-contact used glycols
Aqueous and oil mixtures from parts cleaning operations
Wastewater from oil bearing paint washes
Organics Subcategory : Subpart C
Landfill leachate
Contaminated groundwater clean-up from non-petroleum sources
☐ Solvent-bearing wastes
☐ Off-specification organic product
☐ Still bottoms
☐ Byproduct waste glycol
☐ Wastewater from paint washes
Wastewater from adhesives and/or epoxies formulation
Wastewater from organic chemical product operations
Tank clean-out from organic, non-petroleum sources

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	Metals Subcategory
	☐ Oils Subcategory
	Organics Subcategory

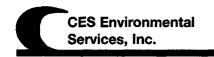
### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



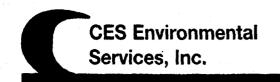
## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$55/yd-No Debris/Dry
	Trans \$69/hr plus FSC
	Trans to redirected facility \$250- plus FSC
2.	Contamination Limits (maximum limit before surcharges apply):
	Fails Analysis
3.	Surcharge Pricing:
- ·	
	See Dan if not good for HPP- Dry, No Trash or Debris
4.	Special Testing Deguirements:
۲.	Special Testing Requirements: During take a sample to tost for  1st load on 6/05/08 need to have Duiside run Analysis to Environ: Outside lab TCLP Metals, TPH, TCLP Benzene Redirect to HPP if Dry with no trash and debris. Cu stomer February  Therefore feeting for RCRA D codes is not necessary.
	1° load on 6/05/08 need to have Duiside run Analysis to Environ: Outside lab TCLP Metals, TPH, TCLP Benzene
	Redirect to HPP it Dry with no trash and debris. Cu stomer of there's RCRA non Harrandous material
	therefore festing for RCRAD codes is not necessary.
	Treatment and Handling Protocol:
<b>3.</b>	
Ì	Redirect HPP
5.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY!!)

/٠	Tests for Froduct Recovered/Recovered (if applicable):
	Na
İ	
i	
8.	Management for Product Recovered/Recycled (if applicable);
	Na



# Waste Pre-Acceptance/Approval Letter

Date 6/5/2008

Dear Rick Sinclair

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2808

**Expiration Date** 6/5/2010

**Generator:** Angel Brothers **Address:** 3300 N. Main

Baytown, TX 77522

Waste Information

Name of Waste: Oily water separator liquids

TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Oil, water, and solids from oily water separator

Color: dark

Odor: hydrocarbon/orange pH: 6-9

**Physical State:** 

Incompatibilities: oxidizers

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.





Dana

4904 Griggs Road, Houston, TX 77021
Phone: {713} 676-1460 Fax: {713} 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948

U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1:	Generat	<u>or ini</u>	<u>formatic</u>	on.												
Company:	Angel B	rothe	rs													
Address:	3300 N.	Main	Street													
City:	Baytow	n				State:	TX			Zip:					7	7521
Contact:	Bobby F	ehrin	g				Tit	le:								
Phone Num	ber:						Fa	x Numt	er:							
24/hr Phone	e Numbe	r:	713-410	-0096												
US EPA ID N	lo:		TXCESQ	G												
State ID No	:	_	CESQG				SiC	Code:		NA						
	Angel B	rothe			Same as	<u>Above</u>										
Address:	PO Box					Canhan	TV	· · · · · ·		7100					7	<b>752</b> 2
City:	Baytowi	<u> </u>				_State:	TX			_Zip:	_					1322
Contact:							Tit		_							
Phone Num	DEL:	-					Fa	x Numb	er							
SECTION 3:	<u>General</u>	Desc	ription c	of the W	<u>aste</u>											
Name of W	acto:		Mile wat	DE CORGE	ator liqui	de										
Detailed De		-														
Decaused De	scription	OI PI	OCE27 G	eneraur	Ŕ M≅zre:											
oil, water, a	nd solids	from	oily wat	ter sepai	ator			<del></del>								
Physical Sta	<b>te:</b> {		Liquid Solid			Sludge Filter C				Powder Combina	tion					
Color:	dark					_	Od	lor:		hydrocar	ban/or	ange	<del></del>			
Specific Gra	vit <b>y (w</b> at	er=1)	j:	<u>.8</u>	6-1	·	_			Density:	88.	34	lbs/ga	1		
Does this m	aterial co	ontair	n any to	tal phen	olic comp	ounds?			Yes	•	No					
Does this m	ateriai co	ontali	n any pa	ra subst	ituted ph	enolic co	ompou	nds?			Yes	V	No		-	
Is the Waste Answer "Yes					ne AND f	f the SIC				cility is one	e of the		_	Yes		No
2812	-	813		2816	2819		821		822			2824		2833		2834
2835	2	836		2841	2842	. 2	843		844		1	2861		2865		2869
2873		874		2876	2879		891	2	892	289	3	2896		2899		2911
3312	4	953		4959	9511	•										
Layers:		Singl	e-phase	ſ	☑ Mult	î-phase										
Container T	ype:		חויות	□ Te	ote 🗸	Truck	☐ Ot	her (ex	ptalr	n)						
Frequency:	☐ Wee	ekly	☐ Moi	nthiy 🖸	Yearly	☐ On	e-Time	!								

Is this a US	EPA "Hazardo	ous Waste" p	er 40CFR 261.	.3?	□ Ye	s 🗸	No		
if "Yes", ti	hen please con	i <b>plete,</b> sign an	d date the Unc	ierlying Haz	ardous Constitu	ents Form att	sched hereto		
If "Yes",	ls it:	] D001 (Ignita	ble)	] D002 (Co	rrosive) [	] D003 (Rea	ctive)		
Characteris	itic for Toxic I	Aetals:	□ 000¢	=		6 🔲 D007	D008	D009	
Characteris	tic for Toxic (	Organics: 001			-				
	F" or "K" Liste			e?	☐ Ye	s 🗹	No		······
If "Yes", 1	then please lis	st ALL applica	ble codes:						
Is this a cor	nmercial prod	iuct or spill d	leanup that v	vould carry	a "U" or "P" w	aste code ur	nder		
	.33(e) or (f)?	•	~~	Yes [	No				
If "Ves", 1	then please li	it ALL applica	ble codes:						
Texas State	Waste Code	Number:		Recycle			-		
Proper US i	OOT Shipping	Name:	Non RCRA	Non DOT R	gulated mater	ìai			
Class:	NA	UN/NA:	NA	PG:	NA	RQ:	NA		
Flasi	h Point	<u> </u>	Ж	Read	ive Sulfides	Reactive	Cyanides	Soli	ds
>	140	(	; <b>-</b> 9	0	<u>me/s</u>	0	mg/l	20-30	%
Oli &	Grease	T	םכ		Zinc	Coj	pper	Nic	rel
>1500	mg/i	1600	mg/i	0.071	mg/l	0.113	mg/l	0.260	mg/l
SECTION 4:	Physical and	Chemical Dat	а						
		ADONENTS TA			Τ	CONCENT	PATOIN		LINITS

SECTION 4:	Physical	and	Chemical	Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Water	55-80	%
Oil	10-20	%
solids (dirt, sand, sllt)	10-15	%
Soap, Degreaser	1-10	%
		<del></del>
		I

SECTION S	5: Safety Rel	ated Data				
If the hand	dling of this v	waste requires ti	he use of special prote	ctive equipment, į	please explain.	
Standard (	PPE					
		Supporting Doc				
		es, data and/or	analysis attached to th	is form as part of	the waste	
approval p	oackage.					·
<del></del>						
						<del></del>
SECTION 7	7: Incompati	bilities				
		atibilities (if any)	2			
None Kno		~ \ \ \ \ \ \				
Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Compan	_ 07	10126				
SECTION 8	: Generator	's Knowledge D	<u>ocumentation</u>			
	•		aste characteristics, ll	ited below, WAS N	NOT PERFORMED	
based upo	n the followi	ing generator kn	owledge:			
TO D 44.4.						
TCLP Meta			<del></del>			
TCLP Volat		<u>x</u>				
Reactivity:	i-Volatiles:	X				
Corrosivity.		×		<del></del>	····	
Ignitability	•	<del>*</del>				· <del></del>
SECTION 9:	Waste Recei	pt Classification (	Under 40 CFR 437 (Prtain	ing to Pre-Treatme	nt Requirements fo	or Centralized Waste Treatmen
fadities)					<b>—</b>	
		erial a wastewater ', complete this se	r or wastewater sludge?		₩ YES	No
		•				
	PLEASE CH	ECK THE APPROP	RIATE BOX. IF NO APPR	OPRIATE CATEGORY	r, GO TO THE NEXT	PAGE
Bénénia Cub	estes en en Eu					
MICLUIS 344	Spent elect	troplating baths a	nd/or studges			•
Č		hing rinse water a				
	Chromate v					
į. T	_	on control blow do Sizing solutions	own water and sludges			
ř		n wastewaters				
Ţ	🔲 Waste liqui					
ļ			reater than 136 mg/l			
			or without metals e preparation solutions (	from electronistine	ar ahosahating on	arations
	_	feburring wastew		nom electropianing	or furashnering ob	
	Alkaline an	d acid solutions u	sed to clean metal parts	or equipment		
Olla Cuba-	tegory: Subp	and G				
OID SUBCUL	Used oils	on B				•
Ī		emulsions or mixte	ures			
Ĩ	Lubricants					
Ļ	Coolants	tod gravadii	clannin from nation	m cources		
L [		iteo groundwater ileum products	clean-up from petroleur	11 2011662		
Ì	Oil spill clea	•				
Ī	📘 Bilge water	7				
Į	_J Rinse/wash	n waters from pet	roleum sources			

	] Interceptor wastes
<u> </u>	Off-specification fuels
<u> </u>	Underground storage remediation waste
<b>}</b> =	] Tank clean-out from petroleum or oily sources ] Non-contact used glycols
Ė	Aqueous and oil mixtures from parts cleaning operations
Ē	Wastewater from oil bearing paint washes
Organies Sui	butegory: Subport C
	Landfill leachate
	Contaminated groundwater clean-up from non-petroleum sources
	Solvent-bearing wastes
<u> -</u>	] Off-specification organic product   Still bottoms
<b>~</b>	Byproduct waste glycol
	Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation
<u></u>	Wastewater from organic chemical product operations
Ļ_	Tank clean-out from organic, non-petroleum sources
(1)	
	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	
	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in
	excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L
	Chromium: 8.9 mg/L
	Copper: 4.9 mg/L
	Nickel: 37.5 mg/L
(3)	
(5)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper,
	or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	☐ Metals Subcategory
	☐ Oils Subcategory
	☐ Organics Subcategory
	Additional Association and the second
PECHON 10	Additional Instructions
-	determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium,
	el, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This
will be prior	to acceptance. The generator will be responsible for the cost of the analysis.
SECTION 11	: Generator's Certification
	ation contained herein is based on  generator knowledge and/or  analytical data.
	tify that the above and attached description is complete and accurate to the best of
•	lge and ability to determine that no deliberate or willful omissions of compostion
	exist and that all known or suspected hazards have been disclosed. I certify that the
	sted are representative of all materials described by this document.
Authorized	Signature: Date: 5-30.08
Printed Nari	signature: Robert DFchein, Augel Bau. Shop Manager
CES USE ON	LY (OO NOT WRITE IN THIS SPACE)
Compliance	Officer Valadas Alas A
compliance Date:	
uate: Approval Ni	
whhichel Mr	Januar.
	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s

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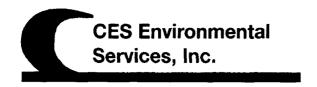
## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
Recycle- \$0.30/gallon, Air machine with operator - \$110.00/hour, Field tech - \$25.00/hour, ppe
2. Contamination Limit (maximum limit before surchages apply):
Solids: 15%, TOC: 5000
•
2. Compleane Duisine.
3. Surcharge Pricing:
standard surcharges
4. Special Testing Requirements:
metals, phenol, toc on water phase, chlor d tech on oil phase, pH
metals, phenol, toe on water phase, emor a teen on on phase, and
5. Treatment and Handling Protocol:
decant oily water off and send for heat, add small amount of sulfuric to break the oil, add oil to black oils, treat
water phase and discharge: For high solids the water phase will require filter pressing.
water phase and discharge; For high solids the water phase will require filter pressing. If the Oil-Water-Solids are an emulsion phase then the entire load will head
to go to the heat trank.
10 40 to the need town,
6. Treated Wastewater Discharge Subcategory:
- / · · ·
☐ Subcategory A ☑ Subcategory B ☐ Subcategory C



## PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

	le):
chlordtect, flash, density	
,	
8. Management for Product Recovered/Recycled (if	applicable)
8. Management for Product Recovered/Recycled (if a mix with black oils	applicable)
	applicable)
	applicable)
	applicable)
	applicable)



4904 Griggs Road Houston, TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1676

Date: 05/21/08

To: Dana Carter

Cc: Kelli Lofton, Gary Peterson

From: Miles Root Lab Memo: 08-086

Subject: Angel Brothers Evaluation 0508-46

A sample of oily water from Angel Brothers, 3300 N Main, has been evaluated for potential processing at CES. This sample is evaluation 0508-46. This sample has potential oil for recovery along with solids that will need to be disposed of. The water is acceptable for processing and discharge.

This sample set overnight and was seen to have a bottom layer of sludgy solids, accounting for approximately 15% of the sample. The oily water was decanted off and heated. A minimal amount of sulfuric acid is needed to cleanly bring all of the oil to the top. I used approximately 0.5 mL in a 150 mL sample.

The oil has a chlor-d-tect of only 300 mg/L and a flash point of 141 deg F. The recovered oil is approximately 13% of the total volume, discounting the sludgy solids. The solids may settle out in the trailer before being discharged. If not, they will settle out in a tank and will need to be cleaned out.

The water has a pH of 7 and has no phenols. The water treats easily and has a nice flock with typical solids and no issues. TOC on the treated water is only 1514 mg/L. Metals on the treated water are also low. The table below summarizes the analytical testing.

Angel Brothers			
Evaluation 0508-46			
Water			
рН	7		
Phenols, ppm	0		
TOC, ppm	1514		
Metals			
Cd	0.098		
Cr	0.077		
Cu	0.113		
Ni	0.260		
Zn	0.071		
Oil			
Flash Point, deg F	141		
Chlor-d-tect, ppm	300		
Density, g/L	0.86		



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 6/5/2008

Dear John Winne

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2809

**Expiration Date** 6/5/2010

Generator: Hitemco Southwest-Lozano

Address: 6421 Lozano

Houston, TX 77041

**Waste Information** 

Name of Waste: filter solids

TCEQ Waste Code #: CESQ3102

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

solids from filtering process

Color: varies

Odor: none

pH: na

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.







4904 Griggs Road, Houston, TX 77021

Phone: (713) 676-1460 Fax: (713) 676-1676

http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

<b>SECTION 1:</b>	Generato	<u>r Informati</u>	<u>on</u>									
Company:	Hitemco :	Southwest										
Address:	6421 Loza	ano										
City:	Houston			St	ate:	TX	Z	ip:	······································			77040
Contact:	John Win	nie				Title:	s	r. Developn	nent Engin	eer		
Phone Num	ber:	713.46	6.9655			– Fax Numbe	_	713.466.176				
24/hr Phone	e Number:	CES: 71	3.676.146	0		_	_					
US EPA ID N		TXCESC	QG			<del></del>						
State ID No	:	CESQG				SIC Code:						3479
SECTION 2:	Billing Inf	ormation -	<b>√</b> <u>S</u>	ame as Abo	<u>ove</u>					•		
Company:												
Address:												
City:				St	ate:		Z	ip:				
Contact:						Title:		_	·			
Phone Num	ber:					_ Fax Numbe	:r: _					
SECTION 3:	General D	escription	of the Wa	ste								
Name of W	aste:	Filter S	olids									
<b>Detailed De</b>	scription o	of Process (	Generating	Waste:					٠.			
	·											
Solids from	filtering pr	ocess		<del></del>		<del></del>	<del></del>			<del></del>		· · ·
Physical Sta	ite:	Liquid Solid		لبسسه	udge Iter Cake	• [		Powder Combination	) ·			
Color:	varies					Odor:	n	ione			<u> </u>	
Specific Gra	vity (wate	r=1):	· · · · · · · · · · · · · · · · · · ·	ve	1.2	Learner Comment	D	Density:	N 110	ĺbs/gal		
Does this m	aterial co	ntain any to	otal pheno	lic compou	nds?	Y	'es	✓ N	lo	•		
Does this m						nounds?		∏ Ye	s 🗸	No		
2003 (1113 111	aterial col	itain any p	014 3403616	atea prient	J. C. CO. (1)	Journay.			ن ا			
						<b>? (40 CFR Par</b> de from your				Yes	V	No
2812		iaste conta	2816	2819	2821		1aciii 22	2823	2824	g. 2833	į	2834
2835		36	2841	2842	2843		44	2823	2861	2865		2869
2873				2879	2891			2893	2896	2899		2911
		574	2876		2891	. 20	92	2093	2090	2033	,	2311
3312	45	53	4959	9511								
Layers:	☑ s	ingle-phase	e [	Multi-pl	nase							
Container T	ype: [	☑ Drum	☐ Tot	e 🗌 Tr	uck [	Other (expl	ain)					
Frequency:	☐ Weel	dy 🗹 Mo	onthly 🗌	Yearly 🗌	One-T	ime						

			per 40CFR 261 and date the Un		Your Constitu		No tached hereto	,	
If "Yes" Character	, is it: [ ristic for Toxic	D001 (Igni Metals:	table) [ D00		5 🔲 000	□ D003 (Re 06 □ D00		<u></u> □ 000	9
Character	ristic for Toxic	Organics: D0	12 thru D043	(please list a	all that apply)				
	"F" or "K" List , then please		mixed with on table codes:	e?	☐ Ye	ıs 🔄	] No		
40 CFR 26	ommercial pro 1.33(e) or (f)? , then please				a "U" or "P" w	raste code u	nder		
40 CFR 26	1.33(e) or (f)?	ist ALL applic			/ No	zaste code u	nder		
40 CFR 26 If "Yes" Texas Sta	1.33(e) or (f)? , then please	ist ALL applic	able codes:	Yes CESQ3102	/ No		nder 		
40 CFR 26 If "Yes" Texas Sta	1.33(e) or (f)? , then please it te Waste Code	ist ALL applic	able codes:	Yes CESQ3102	2 No		nder		-
40 CFR 26 If "Yes" Texas Sta Proper US Class:	1.33(e) or (f)? , then please te Waste Code ; DOT Shipping	list ALL applic e Number: g Name:	cable codes:	Yes CESQ3102  Non DOT Re PG:	No 2	ial RQ:		So	lids
40 CFR 26 If "Yes" Texas Sta Proper US Class:	1.33(e) or (f)? , then please te Waste Code i DOT Shipping	list ALL applic e Number: g Name:	Non RCRA	Yes CESQ3102  Non DOT Re PG:	No 2 egulated Mate	ial RQ:	па	<b>So</b> 95	lids
40 CFR 26 If "Yes" Texas Sta Proper US Class:	i1.33(e) or (f)?  then please if the Waste Code  DOT Shipping na  sh Point	ist ALL applic e Number: g Name: _UN/NA:	Non RCRA na	Yes SECTION OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF T	No egulated Mate	rial _RQ: Reactive 0	na e Cyanides	95	~

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS	
The waste consists of the following materials	Ranges are acceptable	or %	
Fliter solids	80-90	%	
filter paper	0-20	%	
water	0-10	%	
		•	
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		

	Safety Rel			ctive equipment	planca avalain			
If the hand	ling of this v	aste requires the use	of special prote	cuse edithinent	hieaze exhiain.			
none 🤇	kd_							
>								
SECTION 6:	Attached !	upporting Document	<u>.s</u>					
List all docu	iments, not	s, data and/or analysi	is attached to th	is form as part of	the waste			
approval pa	ickage.							
analytical								
SECTION 7:	Incompati	<u>ilities</u>						
Please list A	ALL incompa	ibilities (if any):					•	
none								
				1,				
		<u>.</u>						
SECTION 8:	Generator	Knowledge Docume	entation					
Laboratory	analysis of t	ne hazardous waste cl	naracteristics, lis	ited below, WAS	NOT PERFORMED			
based upon	the followi	g generator knowled	ge:		4			
TCLP Metals	<b>5</b> :							
		×						
TCLP Volatile								
	/olatiles:			<del></del>				
TCLP Semi-V	/olatiles:	X				···		
TCLP Semi-V Reactivity:		x						
TCLP Semi-V Reactivity: Corrosivity: Ignitability: SECTION 9: 1		X	IO CFR 437 (Prtain	ing to Pre-Treatm	ent Requirements fo	or Centralize	ed Waste Treatn	nent
TCLP Semi-V Reactivity: Corrosivity: Ignitability: SECTION 9: 1	Waste Receip	X X X X t Classification Under 4		ling to Pre-Treatm	ent Requirements fo	or Centraliza	ed Waste Treatr	nent
TCLP Semi-V Reactivity: Corrosivity: Ignitability: SECTION 9: 1	Waste Receip	X X X X X Classification Under 4		ing to Pre-Treatmo	<u>.</u>		ed Waste Treatn	nent
TCLP Semi-V Reactivity: Corrosivity: Ignitability: SECTION 9: 1	Waste Receip Is this mate If 'Yes',	X X X X Classification Under 4 ial a wastewater or was	stewater sludge?		☐ YES	₩ NO	ed Waste Treatn	nent
TCLP Semi-V Reactivity: Corrosivity: Ignitability: SECTION 9: 1	Waste Receip Is this mate If 'Yes',	X X X X t Classification Under 4	stewater sludge?		☐ YES	₩ NO	ed Waste Treatr	nent
TCLP Semi-V Reactivity: Corrosivity: Ignitability: SECTION 9: V Facilities)	Waste Receip Is this mate If 'Yes', PLEASE CHE	X X X X t Classification Under 4 ial a wastewater or was complete this section. CK THE APPROPRIATE B	stewater sludge?		☐ YES	₩ NO	ed Waste Treatr	ment
TCLP Semi-V Reactivity: Corrosivity: Ignitability: SECTION 9: V Facilities)	Waste Receir Is this mate If 'Yes', PLEASE CHE Itegory: Sull Spent electr	X X X X X t Classification Under 4 ial a wastewater or was complete this section. CK THE APPROPRIATE B part A oplating baths and/or si	stewater sludge? BOX. IF NO APPRO ludges		☐ YES	₩ NO	ed Waste Treatr	nent
TCLP Semi-V Reactivity: Corrosivity: Ignitability: SECTION 9: V Facilities)	Waste Receip Is this mate If 'Yes', PLEASE CHE REGORY: Sull Spent electri Metal finish	x x x x x t Classification Under 4 ial a wastewater or was complete this section. CK THE APPROPRIATE B part A oplating baths and/or sing rinse water and slud	stewater sludge? BOX. IF NO APPRO ludges		☐ YES	₩ NO	ed Waste Treatr	nent
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	Interceptor wastes				
	Off-specification fuels				
	<ul> <li>Underground storage remediation was</li> <li>Tank clean-out from petroleum or oily</li> </ul>				
	Non-contact used glycols	2001CE2			
	Aqueous and oil mixtures from parts of	eaning operations			
	Wastewater from oil bearing paint was				
Organic:	Subcategory: Subpart C				
	Landfill leachate				
	Contaminated groundwater clean-up fr	rom non-petroleum sou	irces		
	Solvent-bearing wastes				
	Off-specification organic product		•		
	Still bottoms				
	☐ Byproduct waste glycol				
	☐ Wastewater from paint washes				
	Wastewater from adhesives and/or epo	oxies formulation			
	Wastewater from organic chemical pro	duct operations			
	☐ Tank clean-out from organic, non-petro	oleum sources			
(1)					
	If the waste contains oil and grease at c	or in excess of 100 mg/L	, the waste should	be classified in the oi	is subcategory.
				A	
(2)			es.		
	If the waste contains oil and grease less				incentrations in
	excess of the values listed below, the w	aste should be classifie	d in the metals sub	icategory.	
	Cadmium: 0.2 mg/L				
	Chromium: 8.9 mg/L				
	Copper: 4.9 mg/L				4
	Nickel: 37.5 mg/L				
	14lowers 21 12 mg/ E				
(3)					
	If the waste contains oil and grease less or nickel above any of the values listed :  Metals Subcategory Oils Subcategory Organics Subcategory				
				*	
SECTION	10 Additional Instructions				
		1.4			
Copper, I	not determine the correct subcategory in Se lickel, and Oil and Grease, CES will send offsi for to acceptance. The generator will be resp	te to a commercial labo	ratory a sample to		
SECTION	11: Generator's Certification				
The info	mation contained herein is based on	☑ generator know	vledge and/or	☑ analytical data	•
	certify that the above and attached descri		-		
	• 5				
	ledge and ability to determine that no de				
	es exist and that all known or suspected h		•	nat the	
material	tested are representative of all material	s described by this do	cument.		
Authoriz	ed Signature:	١		Date: 29	3 May 08
			,		
Printed 1	lame/Title:	· WHILE	/ DIR &	Date: <u>28</u> BUGAL DEV	
CEC LICE	ONLY (DO NOT WRITE IN THE COACC)		<del></del>		
LES USE	ONLY (DO NOT WRITE IN THIS SPACE)		1.		
_	0 . 21	<b>A</b>			
Compliar	ice Officer: John Charles	an		4.7	
Date:	U-5- U Approved	i 🔲 Rejecte	ed		
Approval	Number: 2809				
					. **



# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (incl	uding freight):
\$65/Drum Trans \$7	'0/hr +FSC
·	
2. Contamination Li	imit (maximum limit before surchages apply):
na	
3. Surcharge Pricing	$oldsymbol{r}$
na	<i>y</i>
IIa	
4. Special Testing R	equirements:
na	
5. Treatment and H	andling Protocol:
na	
Clas	s z solids
<u> </u>	
6. Treated Wastewa	ater Discharge Subcategory:
Subcate	gory A Subcategory B Subcategory C



# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):		
	:	
8. Management for Product Recovered/Recycled (if applicable)		

# Mercury Environmental Services, Inc.

6913 HWY 225. Deer Park, TX 77536 Phone: (281)-476-4534 Fax: (281)-476-4406

**CES Environmental Services** 

4904 Griggs Rd

Houston, TX 77021

Phone (713) 676-1460

(281) 676-1676

Attn:

Gary Brauckman

- CERTIFICATE OF RESULTS -

MES Lab#:

5070881

Client Sample ID:

Hitemco-Filter Solids

Sample Collect Date: 7/29/2005 @ 10:00:00 AM

Sample Type:

Grab

Sample Receipt Date: 7/29/2005 @ 10:00:00 AM

Test Group / Method					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: DCW Date / Time
Antimony	0.032	1	< 0.032	mg/L	8/3/2005 / 3:36 PM
Arsenic	0.014	5	< 0.014	mg/L	8/3/2005 / 3:36 PM
Barium	0.0005	100	1.10	mg/L	8/3/2005 / 3:36 PM
Beryllium	0.0005	0.08	0.0190	mg/L	8/3/2005 / 3:36 PM
Cadmium	0.002	1	< 0.002	mg/L	8/3/2005 / 3:36 PM
Chromium	0.002	5	0.025	mg/L	8/3/2005 / 3:36 PM
Lead	0.005	5	< 0.005	mg/L	8/3/2005 / 3:36 PM
Nickel	0.003	70	52.2	mg/L	8/3/2005 / 3:36 PM
Selenium	0.024	1 .	0.141	mg/L	8/3/2005 / 3:36 PM
Silver	0.002	5	0.004	mg/L	8/3/2005 / 3:36 PM
Vanadium	0.002		0.006	mg/L	8/3/2005 / 3:36 PM
TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: DCW Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	8/3/2005 / 6:52 PM
Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL		Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	4		6	mg/kg	7/30/2005 / 3:39 AM
>C12 - C28 Hydrocarbons	8		654	mg/kg	7/30/2005 / 3:39 AM
>C28 - C36 Hydrocarbons	8		258	mg/kg	7/30/2005 / 3:39 AM
Total TPH	20		918	mg/kg	7/30/2005 / 3:39 AM

Report Date: 09-Aug-05

Page 1 of 2

#### - CERTIFICATE OF RESULTS -

MES Lab#:

5070861

Client Sample ID:

Hitemco-Filter Solids

Sample Collect Date: 7/29/2005 @ 10:00:00 AM

Sample Type:

Grab

Sample Receipt Date: 7/29/2005 @ 10:00:00 AM-

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

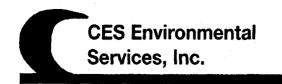
Tuesday, August 09, 2005

Date

Report Date: 09-Aug-05

Page 2 of 2

2 8-4-09 8-4-09 8-4-09 1 RO



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 6/5/2008

Dear Eric Brad

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2811

Expiration Date 6/5/2010

Generator: Chempak

Address: 3647 Willowbend Blvd. Suite 800

Houston, TX 77054

**Waste Information** 

Name of Waste: Non-RCRA non-DOT regulated rinse water

**TCEQ** Waste Code #: 02002191

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

Rinse water used to clean a RCRA empty tank that previously held fatty acids (see msds)

Color: light yellow

Odor: musty

**pH:** 3-10

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

level d ppe

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President

CES Environmental Services, Inc.







4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
<a href="http://www.cesenvironmental.com">http://www.cesenvironmental.com</a>

TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator I							
	MPAK		1.000				
Address: 3647	willowben		te.800		- F11		
City: Hous		State:	Title	- ~ —	17054		
Contact: Eric Phone Number:	Band	100 0 100	_ Title:		cations	<u>a</u>	
24/hr Phone Number:	713-661-	1350 XIVT	_ rax ivumber:	713-61	01-26-1		
US EPA ID No:	TXR000011	TRE	_				
State ID No:	84211	303	SIC Code:	4221-	<u>~</u>	<del></del>	
State ID NO.	07211	*	_ Sic code.	7621-	<u> </u>		
SECTION 2: Billing Infor	mation - 🗷 Sa	me as Above					
Company:							
Address:			-				
		State:		Zip:			
Contact:			Title:				
Phone Number:			Fax Number:				
SECTION 3: General Des	cription of the Wast	<u>e</u>					
_							
Name of Waste:	Non-RCRA Non-DO	<del></del>					
Detailed Description of		Vaste:	rinse water us	ed to clean a R	CRA empty tar	nk	
that previously held fatty	acids ( see MSDS)						
		<del></del>					
Physical State:	Liquid	✓ Sludge		Powder			
rilysical State.	Solid	Filter Cake	<u>,</u> –	Combination			
	30114	Tire: can		Combination			
Color: light yellow			Odor:	musty			
Specific Gravity (water=	<b>1)</b> : n/a-	· .9		Density:	S 105/g	al	
			_		Per :-		
Does this material conta	in any total phenolic	compounds?	☐ Yes	✓ No	)		
				_			
Does this material conta	iin any para substitu	ted phenolic com	pounds?	Yes Yes	✓ No		
Is the Waste subject to t						Yes [	√ No
Answer "Yes" if your was						2022	202
2812 2813		2819 2821			2824	2833	2834
2835 2836		2842 2843			2861	2865	2869
2873 2874		2879 2891	L 2892	2893	2896	2899	2913
3312 4953	3 4959	9511					
Layers: Sing	gle-phase 🗸	Multi-phase					
Container Type:	Drum 🔲 Tote	✓ Truck	Other (explain	n)			
Frequency: Weekly		rearly ☑ One-T	ïme				

If "Yes", If "Yes", If "Yes", If	EPA "Hazardo then please fil Is it: Stic for Toxic N	l out the UHC  D001 (Ignitable)  Jetals:	Form le)	D002 (Corr	D006	D003 (Rea		□ D0009	
	" or "K" Listed			?	☐ Yes	V	No	1840	
40 CFR 261. If "Yes", t	.33(e) or (f)? then please lis	t ALL applicab	☐ Ye	es 🗸	a " <b>U" or "P" w</b> a ] No 	iste code un	der		
Proper US E	Waste Code I	Name:			2191 gulated rinse w		·		
Class:	na	UN/NA:	na	PG:	na	_RQ:	na		
Flash	h Point	рŀ	1	Reacti	ve Sulfides	Reactive	Cyanides	Soli	ds
	140 200	3-1		0	mg/l	0	mg/l	0-8	%
Oil &	Grease	то	С		Zinc	Cor	per	Nicl	cel
<b>Oil &amp;</b>	Grease mg/l Physical and 0	<b>то</b> 0	C mg/l		Zinc	Cor	mg/l	Nicl	cel
Oil & 0	Grease mg/l Physical and 0	0 Chemical Data	C mg/l	0	Zinc mg/l	Cop	mg/l mg/l	Nicl	rel mg/l
Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data	C mg/l	0	Zinc mg/l	CONCENT	mg/l mg/l	Nicl	mg/l UNITS
Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data PONENTS TAB sts of the follor	C mg/l	0	Zinc mg/l	CONCENT Ranges are a	mg/l mg/l  RATOIN acceptable	Nicl	mg/I  UNITS  or %
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Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data PONENTS TAB sts of the follow water	C mg/l	0	Zinc mg/l	CONCENT Ranges are a	mg/l mg/l  RATOIN acceptable	Nicl	mg/I  UNITS  or %  %
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Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data PONENTS TAB sts of the follow water	C mg/l	0	Zinc mg/l	CONCENT Ranges are a	mg/l mg/l  RATOIN acceptable	Nicl	mg/I  UNITS  or %  %
Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data PONENTS TAB sts of the follow water	C mg/l	0	Zinc mg/l	CONCENT Ranges are a	mg/l mg/l  RATOIN acceptable	Nicl	mg/I  UNITS  or %  %
Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data PONENTS TAB sts of the follow water	C mg/l	0	Zinc mg/l	CONCENT Ranges are a	mg/l mg/l  RATOIN acceptable	Nicl	mg/I  UNITS  or %  %
Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data PONENTS TAB sts of the follow water	C mg/l	0	Zinc mg/l	CONCENT Ranges are a	mg/l mg/l  RATOIN acceptable	Nicl	mg/I  UNITS  or %  %
Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data PONENTS TAB sts of the follow water	C mg/l	0	Zinc mg/l	CONCENT Ranges are a	mg/l mg/l  RATOIN acceptable	Nicl	mg/I  UNITS  or %  %
Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data PONENTS TAB sts of the follow water	C mg/l	0	Zinc mg/l	CONCENT Ranges are a	mg/l mg/l  RATOIN acceptable	Nicl	mg/I  UNITS  or %  %
Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data PONENTS TAB sts of the follow water	C mg/l	0	Zinc mg/l	CONCENT Ranges are a	mg/l mg/l  RATOIN acceptable	Nicl	mg/I  UNITS  or %  %
Oil & 0	Grease mg/l  Physical and C  COM	0 Chemical Data PONENTS TAB sts of the follow water	C mg/l	0	Zinc mg/l	CONCENT Ranges are a	mg/l mg/l  RATOIN acceptable	Nicl	mg/I  UNITS  or %  %

MAY-22-2008 16:23 CES ENVIROMENTAL

7137488664 P.004/006

If the handling of this w level D PPE	nted Data vaste requires the use of special protective equipment, please explain.
SECTION 6: Attached S List all documents, note approval package.	Supporting Documents es, data and/or analysis attached to this form as part of the waste MSDS
SECTION 7: Incompati Please list ALL incompa None Known	
Laboratory analysis of t	's Knowledge Documentation he hazardous waste characteristics, listed below, WAS NOT PERFORMED ng generator knowledge:
TCLP Metals:	×
TCLP Volatiles:	<u>x</u>
TCLP Semi-Volatiles:	<u> </u>
Reactivity:	<u>*</u>
Corrosivity:	<u>*</u>
Ignitability:	X
my knowledge and ability properties exist and that	generator knowledge and/or analytical data.  above and attached description is complete and accurate to the best of lity to determine that no deliberate or willful omissions of compostion at all known or suspected hazards have been disclosed. I certify that the presentative of all materials described by this document.  Date:
Printed Name/Title:	ETIC BOWD UP OPERATIONS
CES USE ONLY (DO NOT	WRITE IN THIS SPACE)
Compliance Officer: Date: <u>j - j8</u> Approval Number:	Pathwara Rejected

#### SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge?
If 'Yes', complete this section.

🔀 YES 🗌 NO

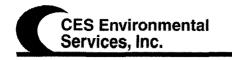
PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

	PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.
Metals Subco	itegory : Subpart A
Wicturs Subcu	Spent electroplating baths and/or sludges
H	Metal finishing rinse water and sludges
$\vdash$	Chromate wastes
Ħ	Air pollution control blow down water and sludges
H	Spent anodizing solutions
H	Incineration wastewaters
H	Waste liquid mercury
H	Cyanide-containing wastes greater than 136 mg/l
H	Waste acids and bases with or without metals
H	Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
H	Vibratory deburring wastewater
H	Alkaline and acid solutions used to clean metal parts or equipment
	Alkaline and acid solutions used to clean metal parts of equipment
Oils Subcatea	ory: Subpart B
	Used oils
百	Oil-water emulsions or mixtures
Ī	Lubricants
П	Coolants
П	Contaminated groundwater clean-up from petroleum sources
Ī	Used petroleum products
	Oil spill clean-up
=	Bilge water
_	Rinse/wash waters from petroleum sources
	Interceptor wastes
	Off-specification fuels
	Underground storage remediation waste
	Tank clean-out from petroleum or oily sources
	Non-contact used glycols
	Aqueous and oil mixtures from parts cleaning operations
	Wastewater from oil bearing paint washes
	<u>category</u> : Subpart C
	Landfill leachate
=	Contaminated groundwater clean-up from non-petroleum sources
=	Solvent-bearing wastes
	Off-specification organic product
=	Still bottoms
_	Byproduct waste glycol
==	Wastewater from paint washes
	Wastewater from adhesives and/or epoxies formulation
=	Wastewater from organic chemical product operations
	Tank clean-out from organic, non-petroleum sources

(1)	If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.
(2)	If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.
	Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L
(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.
	Metals Subcategory
	Oils Subcategory
	Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
.25/gal
2. Contamination Limit (maximum limit before surchages apply):
? toc 210000
3. Surcharge Pricing:
? toc should not be any call if solids I TOC over the limits
4. Special Testing Requirements:
4. Special Testing Requirements:  test for phenols, TOC, and Solids up to 15%, pH - exact the solid faith acid phase as a Solid.
5. Treatment and Handling Protocol:
water treatment for by water share. The too fathy acrd will need to process
water treatment for he water phase, the top fathy acrd will need to process to the heat tank.
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☑ Subcategory C



# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovere	d/Recycled (if applic	able):	
8. Management for Product R	ecovered/Recycled	(if applicable)	
1			



# P&G Chemicals

The Extra Ingredient For Extraordinary Solutions

Page 1 of 7

#### **MATERIAL SAFETY DATA SHEET**

MSDS Number: ACID 121-4 Supersedes: ACID 121-3

Revision Date: April 5, 2006

Issue Date: February 17, 2005

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

• Product identification

Synonyms/Trade Names: Tallow Fatty Acid /T-11, T-11E, T-18, T-18E, T-18S, T-19E, T-22, DR-3

Product uses

The most common uses for this product include being used for the production of soaps, emulsifiers, lubricants, carriers, and soap surfactants.

Company/undertaking identification

North America:

The Procter & Gamble Company Procter & Gamble Chemicals Sharon Woods Technical Center 11530 Reed Hartman Highway Cincinnati, Ohio 45241

Department issuing MSDS: Product Safety and Regulatory Affairs

1-800-477-8899

Europe:

Procter & Gamble International Operations SA.

P&G Chemicals - Europe

The Heights Brooklands Weybridge Surrey

**ENGLAND KT13 0XP** 

Telephone Number: 01932 - 896000

• Emergency Telephone:

P&G Ltd. - Brooklands, England:

Tel 01932-896000 (day phone)

Emergency 0191-279-2000 (day phone)

CHEMTREC

1-800-424-9300 U.S. and Canada 1-703-527-3887 For calls originating

elsewhere

U.S. Emergency, Quality or Service Issues:

Call Customer Service

1-800-477-8899 or 513-626-6882

NAME: T-11, T-11E, T-18, T-18E T-18S, T-19E, T-22, DR-3 **REVISION DATE: April 5, 2006** 

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#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation(mixture): Substance

> EC EC CAS No. Wt/Wt % EC-No. Symbols R-phrases 100

Fatty Acids, C<sub>14-18</sub> and C<sub>16-18</sub>

67701-06-8

2669306

Not applicable Not applicable

unsaturated

Occupational exposure limits, if applicable, are listed in Section 8.

LC/LD50 information is listed in Section 11.

Full text of R phrase(s) are listed in section 16.

#### 3. HAZARDS IDENTIFICATION

European Hazard Classification: This product is not classified as dangerous according to Directive 67/548/EEC.

Emergency Overview:

North America - Non-Hazardous

Potential Health Effects:

Eye -Accidental exposure to the eyes may produce only a mild but transient irritation.

Skin-

No harmful effects expected with normal use.

Heated product may cause thermal burns if contacted.

Inhalation -

Not applicable at ambient temperature.

Ingestion -

Incidental ingestion should not cause injury.

If product is heated, vaporization can occur. Eye skin, and upper respiratory irritation may occur.

Physical/Chemical Hazards: None identified.

Environmental Hazards: None identified.

#### FIRST AID MEASURES

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eye -

Get medical attention.

Skin -Wash skin with soap and water upon contact. Remove contaminated clothing. If irritation develops,

get medical attention. Wash clothing before reuse.

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, Inhalation -

give oxygen. Get medical attention immediately.

If swallowed, do not induce vomiting. Get medical attention. Never give anything by mouth to an Ingestion -

unconscious person.

NAME: T-11, T-11E, T-18, T-18E REVISION DATE: April 5, 2006 Page 3 of 7 T-18S, T-19E, T-22, DR-3

#### 5. FIRE FIGHTING MEASURES

Extinguishing media: SMALL FIRES: Use CO<sub>2</sub> or dry chemical.

LARGE FIRES: Use foam.

Unsuitable extinguishing media: Do not use water as an extinguishing media.

• Flash Point and method: >300° F (149° C) PMCC

• Explosive limits in air:

Upper: Not available Lower: Not available

· Auto-ignition temperature: Not available

• Sensitivity to mechanical impact/static discharge: Not available

- Special Protective Equipment: Wear self-contained breathing apparatus and full protective clothing.
- Other Fire Fighting Considerations: Cool containers with flooding quantities of water until well after fire is out.
- Exposure hazards: Does not decompose up to 400° F (204° C). Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: An appropriate NIOSH/MSHA approved respirator should be used if a mist or vapor is

generated. Wear suitable gloves and eye/face protection. Do not touch damaged containers or

spilled material unless wearing appropriate protective clothing.

• Environmental Precautions: Minimize contamination of drains, surface and ground waters.

Procedures for Spill/Leak Clean-up: Neutralization not required. Contain spill. Absorb or cover with dry earth,

sand or other non-combustible material and transfer to containers for disposal. Dispose as any grease or oily material in compliance with Federal,

State, and/or Local requirements.

Refer to Section 8 for additional personal protection information.

Refer to Section 13 for disposal considerations.

#### 7. HANDLING AND STORAGE

• Handling: Handle in accordance with good hygiene and safety procedures. Avoid contact with eyes, skin, and

clothing. Wash thoroughly after handling.

Since empty containers contain product residue and can be dangerous, follow all hazard warnings and

precautions even after container is emptied. Keep away from sources of ignition.

• Storage: Keep away from possible contact with incompatible substances.

Should be stored in resin-lined steel, aluminum, stainless steel, or reinforced fiberglass vessels.

Do not store near possible sources of ignition.

NAME: T-11, T-11E, T-18, T-18E T-18S, T-19E, T-22, DR-3 **REVISION DATE: April 5, 2006** 

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#### 7. HANDLING AND STORAGE-CONTINUED

Specific use(s): Follow bulk handling and storage procedures as noted above.

Refer to Section 6 for clean-up of spillages. Refer to Section 13 for disposal considerations.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

General Precautions:

Good industrial hygiene practices should be followed.

Avoid breathing (heated) vapors. Avoid eye and skin contact.

Exposure Limit Values: Not established.

**Exposure Controls:** 

**Engineering Controls:** 

Ventilation:

Local exhaust - preferred

Mechanical - may be necessary if working at elevated temperatures

or in enclosed areas.

Personal Protective Equipment:

Eye - Goggles or face shield with goggles, dependent upon potential exposure.

Skin - Protective gloves: Rubber or plastic

Dependent upon degree of potential exposure, additional personal protective equipment may be required, such as chemical boots and full protective clothing.

Inhalation - None required for ambient temperature, although an appropriate NIOSH/MSHA approved air-purifying respirator should be used if a mist or vapor is generated. A NIOSH/MSHA approved self-contained breathing apparatus or air-supplied respirator is recommended if the concentration exceeds the capacity of cartridge respirator. WARNING: Air purifying respirators do not protect workers in oxygendeficient atmospheres.

Other Controls: Boots, eye wash fountain, safety shower, apron, protective clothing.

Environmental Exposure Controls: Contact Procter and Gamble for specific Community information.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Physical State at 72° F (22° C): Solid Appearance: Water white to yellow

Odor: Musty, fatty

Odor Threshold: Not available

NAME: T-11, T-11E, T-18, T-18E REVISION DATE: April 5, 2006 T-18S, T-19E, T-22, DR-3

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES-CONTINUED

• Important health, safety and environmental information:

pH: Not available

Boiling point/Boiling range: Over 500° F (260° C) @ 760 mm Hg (101.3kPa)

Flash Point & Method: >300° F (149° C) PMCC

Flammability (solid, gas): Not available Explosive properties: Not available Oxidising properties: Not available

Vapor pressure: @ 72° F (22° C) < 1 mm Hg Relative density: 0.85 - 0.90 @ 49/25° C

Freezing point: Not available

Solubility:

Water solubility: Negligible @ 72° F (22° C)

Fat solubility (solvent-oil to be specified): Not available

Partition coefficient: n-octanol/water: Not available

Viscosity: Not available Vapor density: Not available

Evaporation Rate (nBuOAc=1): Not available

Explosive Limits: Not available

Auto ignition temperature: Not available

Coefficient of water/oil distribution: Not available

#### 10. STABILITY AND REACTIVITY

• Stability: Stable under normal operational conditions

· Conditions to Avoid: Not available

Materials to Avoid: Avoid strong oxidizing agents.

• Hazardous Decomposition Products: Does not decompose up to 400° F (204° C). Thermal decompsition or burning may produce carbon monoxide and/or carbon dioxide.

· Hazardous Polymerization: Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

#### **Acute Oral Toxicity**

Tallow fatty acids are practically nontoxic based on the toxicity of its components. The acute oral  $LD_{50}$  for rats is greater than 10 g/kg of body weight for  $C_{16}$  and  $C_{18}$  acids. In addition, the acute oral  $LD_{50}$  is greater than 21.5 ml/kg of body weight for octadecenoic and octadecadienoic acids.

#### Skin Safety

Tallow fatty acids should be non-irritating to the skin and should produce no skin sensitization based on safety studies of its constituents. Hexadecanoic, octadecanoic and octadecenoic acids produce essentially no primary irritation upon repeated exposure in repeat insult patch testing with humans. Skin sensitization did not occur.

NAME: T-11, T-11E, T-18, T-18E REVISION T-18S, T-19E, T-22, DR-3

**REVISION DATE: April 5, 2006** 

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#### 11. TOXICOLOGICAL INFORMATION-CONTINUED

Eye Safety

The undiluted tallow fatty acids may produce mild transient eye irritation based on eye safety studies of  $C_{16}$  -  $C_{18}$  fatty acids.

#### 12. ECOLOGICAL INFORMATION

The 96 hour LC<sub>50</sub> for Bluegills was greater than 1000 mg/l. This result indicates that the hazard posed by this material to Bluegills is insignificant.

Microbiological Inhibition:

No inhibition to 600 mg/L

#### 13. DISPOSAL CONSIDERATIONS

DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Do not dispose of via sinks, drains or into the immediate environment.

#### 14. TRANSPORT INFORMATION

U.S. DOT: Not regulated

Not classified in RID/ADR - ADNR - IMDG - ICAO/IATA - DGR

#### 15. ADDITIONAL REGULATORY INFORMATION

**INVENTORY STATUS:** 

Listed on TSCA (USA), DSL (Canada), EINECS (EC), Philippines, China, Korea, Australia

WGK Water endangering class is based on the computation rule of VwVwS Annex 4 for mixtures.

1, slightly water endangering

#### Canada

HAZARDOUS INGREDIENTS - WHMIS (Canadian Workplace Hazardous Materials Information System)
This product when tested as a whole is not a controlled substance within the meaning of the Hazardous Products Act.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### 16. OTHER INFORMATION

#### **EUROPE**

This product safety data sheet was prepared in compliance with Directive 2001/58/EC.

References:

Fatty Acid Producers' Council Report, Acute Toxicity & Irritation Studies. January 23, 1974.

Fatty Acid Producers' Council Report, Corrosivity Study on a Series of Nine Materials.

July 5, 1974.

NAME: T-11, T-11E, T-18, T-18E REVISION DATE: April 5, 2006 Page 7 of 7 T-18S, T-19E, T-22, DR-3

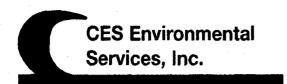
#### 16. OTHER INFORMATION-CONTINUED

The following sections contain revisions or new statements: 1.

Department issuing MSDS: Product Safety and Regulatory Affairs 1-800-477-8899.

The submission of the MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied are for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific product designated herein, and does not relate to use in combination with any other material or any other process. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the controlled product.



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 5/21/2008

Dear Jamie Stieffel

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2789

Expiration Date 5/21/2010

Generator: Trelleborg CRP, Inc 1902 Rankin Rd Address:

Houston, TX 77073

**Waste Information** 

Name of Waste: Non regulated water contminated with oil, dirt, grit

**TCEQ Waste Code #: 15271011** 

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

material from cleanout of sump tank

Color: brown/clear Odor: none **pH**: 7

**Physical State:** 

Incompatibilities: n/a

Safety Related Data/Special Handling:

std

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



# **CES Environmental** Services, Inc.

4904 Griggs Road Phone: (713) 676-1460

Houston, TX 77021

Fax: (713) 676-1676

http://www.cesenvironmental.com TCEQ Industrial Solid Waste Permit No: 39048

U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Gener		ann I		
Company: Address:	TRELLEBORG 1902 RANK		and the state of the supplementation of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	
City, State, Zip:	HOLESTON.	TX 77073		
Contact:	DENNIS BO		Title:	
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24/hr Phone:			~~	19.190.190.190.190.190.190.190.190.190.1
U.S. EPA I.D. No:	TXD.981.909	823	~~	
State I.D.	7404	1	SIC Code:	3089
	g Information — 🗍 S			
Company:	Pollution Control Inc	lustries		
Address:	4343 Kennedy Aven			
City, State, Zip:	East Chicago, IN 463	312		
Contact:	Erika Frederick	Title:	PCI Direct N	
Phone No:	800-388-7242	Fax No:	219-397-641	11
Name of Waste: N	ral Description of the	JTAMINATED WITH	- OIL, DIR FROM C	T, GRIT LEANOUT OF SUMP TANK
Physical State:	<b>∑</b> Liquid □ Solid	wom	☐ Powder ☐ Combinati	on .
	[_] Conta	LI XIIII CANC	Combined	OII.
Color: BROWN/C	LEAR (	Odor: NOVE		
Specific Gravity (wa	iter=1): <u>                                    </u>	Density: 2 lbs/gal		
Layers:	Single-phase	Multi-phase		
Container Type: Container Size:	Drum	Tote 🔀	Truck	Other (explain)
Frequency: Number of Units (co	☐ Weekly outniners): <u>(100</u> Ge	Monthly C		y ⊠ Yearly
Texas State Waste (	Code No:	15271011		
Proper U.S. DOT Sh	nioning Name:		1 f	
_		NON REGULA		TERIAL
Class: N/A	UN/N	A: N/A	PG:	1/A RO: N/A
Flash Point >200°F	PH	Reactive Sulfides Omg/l	Reactive of mg	* 1.u
Oil&Grease	TOC mg/l	Zinc	Copper	Nickel
() mg/l	<u>U_mg/l</u>	0.125mg/l	O mg/l	

#### SECTION 4: Physical and Chemical Data

ESMINATERIA	Conventeation	Enits
The waste consists of the following materials	Ranges are acceptable	or %
DIET GRIT	5-10	0/0
WATER	80-88	%
OIL	0-2	0/0

SECTION	V 5:	Safety	Relate	d Data

If the handling of this waste requires the use of special protective equipment, please explain. N/A

#### **SECTION 6: Attached Supporting Documents**

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package. LABORATORY ANALYSIS

#### SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

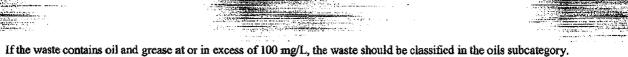
#### SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: TCLP Volatiles: TCLP Semi-Volatiles: Reactivity: Corrosivity: Ignitability:	
SECTION 9: Generato	r's Certification
attached description is comissions of composition tested are representative	and herein is based on  generator knowledge and/or  analytical data. I hereby certify that the above and complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful in properties exist and that all known or suspected hazards have been disclosed. I certify that the materials of all materials described by this document.
Authorized Signature:	Tikning & Borner Date: 5-14-08
Printed Name/Title:	DENNIS K. BOOK HSE MAKAGER
CES USE ONLY (DO NOT)  Compliance Officer:  Date: 5-2 -0	abbut Thy Additional Information:
Approval Number:	7.789

# SECTION 10: Waste Receipt Classification Under 40 CFR 437 Is this material a wastewater or wastewater sludge? YES NO If 'Yes', complete this section. PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATES Metals Subcategory: Subpart A

#### PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE. Spent electroplating baths and/or sludges Metal finishing rinse water and sludges Chromate wastes Air pollution control blow down water and sludges Spent anodizing solutions Incineration wastewaters Waste liquid mercury Cyanide-containing wastes greater than 136 mg/l Waste acids and bases with or without metals Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations Vibratory deburring wastewater Alkaline and acid solutions used to clean metal parts or equipment Oils Subcategory: Subpart B Used oils Oil-water emulsions or mixtures Lubricants Coolants Contaminated groundwater clean-up from petroleum sources Used petroleum products Oil spill clean-up Bilge water Rinse/wash waters from petroleum sources Interceptor wastes Off-specification fuels Underground storage remediation waste Tank clean-out from petroleum or oily sources Non-contact used glycols Aqueous and oil mixtures from parts cleaning operations Wastewater from oil bearing paint washes Organics Subcategory: Subpart C Landfill leachate Contaminated groundwater clean-up from non-petroleum sources Solvent-bearing wastes Off-specification organic product Still bottoms Byproduct waste glycol Wastewater from paint washes Wastewater from adhesives and/or epoxies formulation Wastewater from organic chemical product operations Tank clean-out from organic, non-petroleum sources



- If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess (2) of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L Chromium: 8.9 mg/L Copper: 4.9 mg/L Nickel: 37.5 mg/L

(3)	If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or
	nickel above any of the values listed above, the waste should be classified in the organics subcategory.

Metals Subcategory
Oils Subcategory

#### Organics Subcategory

#### **SECTION 11: Additional Instructions**

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$0.15/gal + trans the  Pressure warter \$125/day  Ladder \$30/day
	Pressure warter bar 1de
	Ladder
2.	Contamination Limits (maximum limit before surcharges apply):
	Up to 1% solida. Excess 0.01/90/1/0
3.	Surcharge Pricing:
	Standard per shared drive
4.	Special Testing Requirements:
	pH, toc. phrenol, solids,; It there are high solids the material must process through the press. Surcharge + overteen inbound for Solids over 10%
5.	Treatment and Handling Protocol:
	Material will have to process through to press due to high solids. If there
	Material will have to process through to press due to high solids. If there is an oil phase this must be decented before going to waste water. No Oils can go to the waste water treatment.
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory C



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

			 -
		•	
Management for Pro	duct Recovered/Recycled (it	f annlicable):	
Management for Pro	duct Recovered/Recycled (in	f applicable);	
	duct Recovered/Recycled (i	f applicable);	
		f applicable);	
		f applicable);	





Lee Gunter Trelleborg CRP Inc. 1902 Rankin Road Houston, TX 77073

Reference:

Project : STORM TROOPER

Project No. : 353602
Date Received : 05/02/2008
TestAmerica Job : 353602

#### Dear Lee Gunter:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

#### 1. WATER (STORM TROOPER)

All holding times were met for the tests performed on these samples.

Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

The test results in this report meet all NELAP requirements for TestAmerica Houston's NELAP accredited parameters. Any exceptions to the NELAP requirements will be flagged accordingly and where applicable, included in a case narrative as a part of this report.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting TestAmerica to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely,

Jódi L. Allen Project Manager



# ANALYTICAL REPORT

JOB NUMBER: 353602 Project ID: STORM TROOPER

Prepared For:

Trelleborg CRP Inc. 1902 Rankin Road Houston, TX 77073

Attention: Lee Gunter

Date: 05/05/2008

Signature

Name: Jodi L. Allen

Title: Project Manager II

E-Mail: jodi.allen@testamericainc.com

TestAmerica Laboratories, Inc

6310 Rothway Drive Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 16

SAMPLE INFORMATION Date: 05/05/2008

Job Number:: 353602 Customer...: Trelleborg CRP Inc. Attn.....: Lee Gunter

Project Number.....: 99005856
Customer Project ID...: STORM TROOPER
Project Description...:

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
353602-1	WATER (STORM TROOPER)	Water	05/02/2008	10:30	05/02/2008	15:03
		:				
					,	
:						
:						
		***				

Page 1

RESULTS LABORATORY TEST

Job Number: 353602

Date: 05/05/2008

CUSTOMER: Trelleborg CRP Inc.

PROJECT: STORM TROOPER

ATTN: Lee Gunter

Customer Sample ID: WATER (STORM TROOPER)
Date Sampled.....: 05/02/2008
Time Sampled.....: 10:30
Sample Matrix....: Water

Laboratory Sample ID: 353602-1 Date Received.....: 05/02/2008 Time Received.....: 15:03

EPA-600-91 Acid Digestion, Water Complete  EPA 245.1 Mercury (CVAA) Automated Mercury (Hg), Water ND 0.20 ug/L 05  EPA 200.7 Metals Analysis(ICAP), Trace Aluminum (Al), Water 0.649 0.500 mg/L 05  Arsenic (As), Water ND 0.0798 0.020 mg/L 05  Barium (Ba), Water ND 0.0798 0.020 mg/L 05  Beryllium (Be), Water ND 0.005 mg/L 05  Cadmium (Cd), Water ND 0.005 mg/L 05  Chromium (Cr), Water ND 0.010 mg/L 05  Lead (Pb), Water ND 0.010 mg/L 05  Selenium (Se), Water ND 0.040 mg/L 05	05/05/08 05/02/08 05/05/08 05/05/08 05/05/08 05/05/08 05/05/08	dcl srp
EPA 245.1 Mercury (CVAA) Automated Mercury (Hg), Water ND 0.20 ug/L 05  EPA 200.7 Metals Analysis(ICAP), Trace Aluminum (Al), Water 0.649 0.500 mg/L 05 Arsenic (As), Water ND 0.020 mg/L 05 Barium (Ba), Water 0.0798 0.020 mg/L 05 Beryllium (Be), Water ND 0.005 mg/L 05 Cadmium (Cd), Water ND 0.005 mg/L 05 Chromium (Cr), Water ND 0.010 mg/L 05 Lead (Pb), Water ND 0.010 mg/L 05 Selenium (Se), Water ND 0.040 mg/L 05 Selenium (Se), Water ND 0.040 mg/L 05	05/05/08 05/05/08 05/05/08 05/05/08 05/05/08 05/05/08	dcl srp
Mercury (Hg), Water	05/05/08 05/05/08 05/05/08 05/05/08 05/05/08	srp
Aluminum (Al), Water   0.649   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.500   mg/L   0.5	05/05/08 05/05/08 05/05/08 05/05/08	srp
	05/05/08 05/05/08 05/05/08 05/05/08	srp srp srp

<sup>\*</sup> In Description = Dry Wgt.

QUALITY CONTROL RESULTS

Job Number.: 353602

CUSTOMER; Trelleborg CRP Inc.

QUALITY CONTROL RESULTS

Report Date.: 05/05/2008

ATTN: Lee Gunter

Me	thod Descri		and Grease (Gr	av.) or TPH (Gr	av.) Units Batch(s)		)/L	Test Co	: sfc de.: DILGRE	
QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits F	Date	Time
	198385-2 198385-2 198385-2	EX042308HE EX042308HE	0.0 38.7 38.0	38.7	40.000000 40.000000	0.0	96.8 95.0	78-114 78-114	05/05/2008 05/05/2008 05/05/2008	1300

EPAHO108000141

	Job Number.: 353602	QUALITY	CONTROL	. R	ESUL	TS	Report	Date.: 05/05	/2008	
USTOMER: Tr	elleborg CRP Inc.	PROJEC	T: STORM TROOF	ER			ATTN: L	ee Gunter		
QC Type	Description		Reag. Code		Lab	ID	Diluti	on Factor	Date	Time
	: EPA 245.1 iption.: Mercury (CVAA) Aut	omated	Units Batch(s)		: u	g/L		Analyst	: dcl	
cs	Laboratory Control Sample		MSHGICV2		198347				05/05/2008	3 123
Param	eter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Result	* Limit	ts
cury (Hg),	Water	3.082451179			3.00	***************************************		102.7	90.0-1	110.0
В	Method Blank				198347				05/05/2008	3 123
Param	eter/Test Description	QC Result	QC Result	True	Value	Orig. \	/alue	Calc. Result	* Limit	ts
cury (Hg),	Water	-0.01409612		······································	******************	• •••••••••	***************************************	***************************************		
)	Method Duplicate				353611-	1			05/05/2008	3 124
Param	eter/Test Description	QC Result	QC Result	True	Value	Orig. \	/alue	Calc. Result	* Limit	:s
cury (Hg),	Water	0.02460264	0.03263475	·····		0.0	3263475	0.0080321	1 0.2000	00000
S	Matrix Spike		MSHQTCVZ		353611-	1			05/05/2008	3 124
Param	eter/Test Description	QC Result	QC Result	True	Value	Orig. \	/alue	Calc. Result	* Limit	ts
cury (Hg),	Water	3.240784818	**************************************		3.00	0.0	3263475	106.9	75-1	125
S	Matrix Spike		MSHG1CV2		353621-	7			05/05/2008	3 13
Param	eter/Test Description	QC Result	QC Result	True	Value	Orig. \	/alue	Calc. Result	* Limit	s
cury (Hg),	Water	1.539248095			3.00	0.10	29010548	47.9	75-1	25
SD	Matrix Spike Duplicate		MSHGTCVZ		353611-	l			05/05/2008	1 12
Param	eter/Test Description	QC Result	QC Result	True	Value	Orig. '	/alue	Calc. Result	* Limit	ts
cury (Hg),	Water	3.156941334	3.240784818		3.00	0.0	3263475	104.1 2.7	75-1 20	25
SD.	Matrix Spike Duplicate		MSHGTCV2		353621-	3			05/05/2008	3 13
Param	eter/Test Description	QC Result	QC Result	True	Value	Orig. '	Value	Calc. Result	* Limit	s
cury (Hg),	Water	1.535472397	1.539248095		3.00	0.10	29010548	47.8 0.2	75-1 20	25

Page 4 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

Job Number.: 353602	QUALITY	CONTROL	RESUL	T S	Report Date.: 05/0	05/2008	
CUSTOMER: Trelleborg CRP Inc.	PROJEC	T: STORM TROOP	ER		ATTN:		
QC Type Description		Reag. Code	Lab	ID	Dilution Factor	Date Ti	me
PB Prep. Blank			198347			05/05/2008 1	239
Parameter/Test Description	QC Result	QC Result	True Value	Orig. \	/alue Calc. Resul	t * Limits	F
Mercury (Hg), Diss.	0.00330232			•			
SD Serial Dilution			353621-6		5	05/05/2008 1	323
Parameter/Test Description	QC Result	QC Result	True Value	Orig. V		lt * Limits	F
Mercury (Hg), Water	0.02867335	40 XC3011	Truc Tutue		29010548	Limites	
Test Method: EPA 200.7 Method Description.: Metals Analysis(IC	CAP), Trace		: 198371	3/L	Analys	it: srp	
EB Extraction Blank			198351			05/05/2008 1	124
Parameter/Test Description	QC Result	QC Result	True Value	Orig. V	/alue Calc. Resul	t * Limits	F
Aluminum (Al), Diss. Arsenic (As), Diss. Barium (Ba), Diss. Beryllium (Be), Diss. Cadmium (Cd), Diss. Chromium (Cr), Diss. Lead (Pb), Diss. Selenium (Se), Diss. Zinc (Zn), Diss.	-0.00564 -0.00232 0.00008 0.00000 0.00001 0.00005 -0.00002 -0.00497 0.00402			,			
LCS Laboratory Control Sample		MSPIKEW	198351			05/05/2008 1	120
Parameter/Test Description	QC Result	QC Result	True Value	Orig. V	/alue Calc. Resul	t * Limits	F
Aluminum (Ai), Water Arsenic (As), Water Barium (Ba), Water Beryllium (Be), Water Cadmium (Cd), Water Chromium (Cr), Water Lead (Pb), Water Selenium (Se), Water Zinc (Zn), Water	9.80756 0.99924 1.00567 0.49369 0.50238 0.98717 1.00312 0.98111 1.00628		10.00 1.00 1.00 0.500 0.500 1.00 1.00 1.		98.1 99.9 100.6 98.7 100.5 98.7 100.3 98.1	85.0-115. 85.0-115. 85.0-115. 85.0-115. 85.0-115. 85.0-115. 85.0-115. 85.0-115.	0 0 0 0 0 0 0
MB Method Blank			198351			05/05/2008 1	116
Parameter/Test Description	QC Result	QC Result	True Value	Orig. V	'alue Calc. Resul	t * Limits	F
Aluminum (Al), Water Arsenic (As), Water Barium (Ba), Water Beryllium (Be), Water Cadmium (Cd), Water Chromium (Cr), Water	-0.00365 0.00011 0.00000 -0.00003 -0.00026 0.00096						

Page 5 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

	Job Number.: 353602	QUALITY	CONTROL	. RESUL	T S	Report	Date.: 05/05/	/2008	······································
CUSTOMER: Tr	elleborg CRP Inc.	PROJE	CT: STORM TROOF	PER		ATTN:			
QC Type	Description		Reag. Code	Lab	ID	Dilut	ion Factor	Date T	ime
МВ	Hethod Blank			198351				)5/05/2008	1116
Paran	meter/Test Description	QC Result	QC Result	True Value	Orig.	Value	Calc. Result	* Limits	F
Lead (Pb), Wat Selenium (Se), Zinc (Zn), Wat	Water	-0.00025 -0.00060 0.00312							
MD	Method Duplicate			353038-	1		ſ	05/05/2008	1131
Param	meter/Test Description	QC Result	QC Result	True Value	Orig.	Value	Calc. Result	* Limits	F
Aluminum (Al), Arsenic (As), Barium (Ba), D Beryllium (Be), Cadmium (Cd), Chromium (Cr), Lead (Pb), Dis Selenium (Se), Zinc (Zn), Dis	Diss. iss. , Diss. Diss. Diss. s. Diss.	0.09241 0.05605 0.00521 0.00000 -0.00010 0.00092 0.00228 -0.00185 0.00568	0.09096 0.05662 0.00491 0.00001 -0.00001 0.00022 0.00277 0.00084 0.00376	353395=	-	0.09096 0.05662 0.00491 0.00001 0.00001 0.00022 0.00277 0.00084 0.00376	0.00057 0.00030 0.00001 0.00009 0.00070 0.00049 0.00269 0.00192	0.50000 0.02000 0.02000 0.00500 0.00500 0.01000 0.01000 0.04000 0.03000	1152
	method buppicate meter/Test Description	QC Result	QC Result	True Value	Orig.	Value	Calc. Result		rios F
Aluminum (Al), Arsenic (As), Barium (Ba), W Beryllium (Bd), Chromium (Cd), Chromium (Cr), Lead (Pb), Wat Selenium (Se), Zinc (Zn), Wat	Water Water Jater , Water Water Water er Water	1.26650 0.00201 0.15391 -0.00002 0.0020 0.01410 -0.00066 0.00030 0.02965	1.25475 0.00437 0.15338 -0.00003 0.00016 0.01401 -0.00082 0.00072 0.02733		· · · · · · · · · · · · · · · · · · ·	1.25475 0.00437 0.15338 0.00003 0.00016 0.01401 0.00082 0.00072 0.02733	0.01175 0.00236 0.3 0.00001 0.00004 0.00009 0.00016	0.50000 0.02000 20 0.00500 0.00500 0.01000 0.01000 0.04000 0.03000	
MS	Matrix Spike		MSPIKEW	353038-	l		C	5/05/2008	1135
Param	eter/Test Description	QC Result	QC Result	True Value	Orig.	Value	Calc. Result	* Limits	_ F
Aluminum (Al), Arsenic (As), Barium (Ba), D Beryllium (Be) Cadmium (Cd), Chromium (Cr), Lead (Pb), Dis Selenium (Se), Zinc (Zn), Dis	Diss. iss. , Diss. Diss. Diss. s. Diss.	10.52958 1.07751 1.02795 0.49917 0.49974 0.99684 1.01226 1.00486 1.05989		10.00 1.00 1.00 0.500 0.500 1.00 1.00 1.	 	0.09096 0.05662 0.00491 0.00001 0.00001 0.00022 0.00277 0.00084 0.00376	104.4 102.1 102.3 99.8 100.0 99.7 100.9 100.4	70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130	

Page 6 \* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

Job Number.: 353602	QUALITY	CONTROL	. RESULI		t Date.: 05/05/	/2008	<del></del>
CUSTOMER: Trelleborg CRP Inc.	PROJE	CT: STORM TROOF	'ER	ATTN:			
QC Type Description		Reag. Code	Lab	ID Dilu	tion Factor	Date Ti	me
MS Matrix Spike		MSPIKEW	353395-1			05/05/2008 1	204
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Aluminum (Al), Water Arsenic (As), Water	12.75033 1.11730		10.00 1.00	1.2547 0.0043		70-130 70-130	
Barīum (Ba), Water Beryllium (Be), Water	1.20171 0.49560		1.00 0.500	0.1533 -0.0000		70-130 70-130	
Cadmium (Cd), Water	0.47777		0.500	0.0001	6 95.5	70-130	
Chromium (Cr), Water Lead (Pb), Water	0.99433 0.99872		1.00 1.00	0.0140 -0.0008		70-130 70-130	
Selenium (Se), Water Zinc (Zn), Water	1.16718 1.08848		1.00 1.00	0.0007 0.0273		70-130 70-130	
21110 (211), water	1.00045		7.00	0.0213	3 100.1	70 130	
MSD Matrix Spike Duplicate		MSPIKEW	353038-1		(	05/05/2008 1	139
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Aluminum (Al), Diss.	10.69609	10.52958	10.00	0.0909	6 106.1 1.6	70-130 20	
Arsenic (As), Diss.	1.08462	1.07751	1.00	0.0566		70-130 20	
Barium (Ba), Diss.	1.04044	1.02795	1.00	0.0049		70-130 20	
Beryllium (Be), Diss.	0.50364	0.49917	0.500	0.0000		70-130 20	
Cadmium (Cd), Diss.	0.50503	0.49974	0.500	-0.0000		70-130 20	
Chromium (Cr), Diss.	1.00628	0.99684	1.00	0.0002		70-130 20	
Lead (Pb), Diss.	1.01787	1.01226	1.00	0.0027		70-130 20	
Selenium (Se), Diss.	1.00510	1.00486	1.00	0.0008	4 100.4	70-130	
Zinc (Zn), Diss.	1.04815	1.05989	1.00	0.0037	0.0 6 104.4 1.1	20 70-130 20	
					1.1	20	
MSD Matrix Spike Duplicate		MSPIKEW	353395-1			05/05/2008 1	208
Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Aluminum (Al), Water	12.80865	12.75033	10.00	1.2547	5 115.5 0.4	70-130 20	
Arsenic (As), Water	1.10262	1.11730	1.00	0.0043		70-130 20	
Barium (Ba), Water	1.20015	1.20171	1.00	0.1533		70-130 20	
Beryllium (Be), Water	0.49568	0.49560	0.500	-0.0000		70-130 20	
Cadmium (Cd), Water	0.47858	0.47777	0.500	0.0001	6 95.7	70-130	
Chromīum (Cr), Water	1.00167	0.99433	1.00	0.0140		20 70-130	
Lead (Pb), Water	1.00198	0.99872	1.00	-0.0008		20 70-130	
Selenium (Se), Water	1.15488	1.16718	1.00	0.0007		20 70-130	
		Page 7	* %=% REC,	R=RPD, A=ABS	1.0 Diff., D=% Diff	20 F.	

	Job Number.: 353602	QUALITY	CONTROL	R	ESULI	rs	Report	Date.: 05/05/	2008		
CUSTOMER: Tr	elleborg CRP Inc.	PROJEC	T: STORM TROOP	ER			ATTN:				
QC Type	Description		Reag. Code		Lab	ID	Dilut	ion Factor	Date	Ti	me
MSD	Matrix Spike Duplicate		MSPIKEW		353395-1			į (	5/05/	2008 1	208
Param	eter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Result	* L	imits	F
Zinc (Zn), Wate	er	1.09143	1.08848		1.00		0.02733	106.4 0.3	20	70-130	
SD	Serial Dilution				353038-1		5	ſ	5/05/	2008 1	231
Param	eter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Result	* L	imits	F
Aluminum (Al), Arsenic (As), I Barium (Ba), D Beryllium (Be), Cadmium (Cd), I Chromium (Cr), Lead (Pb), Diss Selenium (Se), Zinc (Zn), Diss	Diss. iss. , Diss. Diss. Diss. s. Diss.	-0.00165 0.01086 0.00115 0.00002 0.00001 0.00053 0.00179 -0.00130 0.00251				-	0.09096 0.05662 0.00491 0.00001 0.00002 0.00227 0.00277 0.00084 0.00376	4.1 17.1 223.1			the organization
STD	Spiked Blank Duplicate							C	5/05/2	2008 0	842
Paramo	eter/Test Description	QC Result	QC Result	True	Value	Orig.	Value	Calc. Result	* L	imits	F
Aluminum (Al) Arsenic (As) Barium (Ba) Beryllium (Be) Cadmium (Cd) Chromium (Cr) Zinc (Zn)		1.22775 0.93029 0.85018 0.31421 7.36359 0.43819 0.38658									

#### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

Report Date: 05/05/2008

#### REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field, (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
- 4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

#### General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reportesd as the final result.
- m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethysily!(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
   Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, mutltiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentration must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "O". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

#### Explanation of Qualifiers:

- U This qualifier indicates that the analyte was analyzed but not detected.
- J (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the
- (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- N (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

#### Explanation of General QC Outliers:

- A Matrix interference present in sample.
- a MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
- Target analyte was found in the method blank.
- M QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
- L LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were

#### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

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- observed above the RL in the associated samples.
- G Marginal outlier within 1% of acceptance criteria.
- r RPD value is outside method acceptance criteria.
- ${f C}$  Poor RPD values observed due to the non-homogenous nature of the sample.
- O Sample required dilution due to matrix interference.
- D Sample reported from a dilution.
- d Spike and/or surrogate diluted.
- E The reported concentration exceeds the instrument calibration.
- F The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
- H Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- See the subcontract final report for qualifier explanation.
- W The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
- K High recovery will not affect the quality of reported results.
- Z See case narrative.

#### Explanation of Organic QC Outliers:

- e Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T Sample analysis yielded poor surrogate recovery.

  R The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X Gaseous compound. In-house QC limits are advisory.
- ' Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f Surrogate not associated with reported analytes.

### Explanation of Inorganic QC Outliers:

- Q Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- Serial dilution failed due to matrix interference
- g Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
- s BOD/CBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- l BOD/cBOD ECS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- N Spiked sample recovery is not within control limits.
- n Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
- \* Duplicate analysis is not within control limits.

#### Abbreviations:

- Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- Continuing Calibration Verification CCV
- Low level standard check GFAA, Mercury Low level standard check ICP CRA
- CRI
- Dil Fac Dilution Factor Secondary dilution analysis

#### QUALITY ASSURANCE METHODS

#### REFERENCES AND NOTES

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**DLFac** - Detection Limit Factor DU - Duplicate ΕB - Extraction Blank (TCLP, SPLP, etc.) ICAL - Initial Calibration - Initial Calibration Blank ICV Initial Calibration Verification ISA - Interference Check Sample A - ICP - Interference Check Sample B - ICP ISB - Laboratory Control Duplicate LCD - Laboratory Control Sample - Method Blank LCS MR MD - Method Duplicate MD1. - Method Detection Limit MOI - Method Quantitation Limit (TRRP) MS - Matrix Spike MSD - Matrix Spike Duplicate ND - Not Detected PB - Preparation Blank **PREPF** Preparation Factor Reporting Limit RPD - Relative Percent Difference RRF Relative Response Factor

# TIC - Tentatively Identified Compound Method References:

Retention Time

RT

SQL

- (1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May 1994.
- (3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
- (4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
- (5) HACH Water Analysis Handbook 3rd Edition (1997).

Sample Quantitation Limit (TRRP)

- (6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
- (7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.
- (9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

Job	Number: 353602	LABORATOR	Y CH	RONI	CFE	Date: 0	5/05/2008		
CUSTOMER: Trelleb	org CRP Inc.	PROJE	CT: STORM	TROOPER		А	TTN: Lee Gunt	e <b>r</b>	
Lab ID: 353602-1 METHOD EPA-600-91 EPA 245.1 EPA 245.2 EPA 200.7 EPA 1664A	Client ID: WATER DESCRIPTION Acid Digestion, Tota Mercury (CVAA) Autor Mercury Preparation Metals Analysis(ICAF Oil and Grease (Grav	al Metals mated (CVAA) Automated P), Trace	Date Re RUN# 1 1 1 1	cvd: 05/ BATCH# 198351 198380 198347 198371 198385	02/2008 PREP BT 198347 198351		Date: 05/02/20 DATE/TIME AN 05/02/2008 05/05/2008 05/05/2008 05/05/2008 05/05/2008		DILUTION

# STL

#353602 CHAIN OF CUSTODY RECORD Information Analysis/Method No. 57216-2 Customer Project Information TCLP 8 RCRA Metals (AS.BA.CD.CR.PB.HG.SE.AG) TOTAL 8 RCRA Metals(AS.BA.CD.CR.PB.HG.SE.AG) TOTAL Priority Pollutant Metals (13) PO PROJECT NAME BOTTLE ORDER LAB NUMBER WO BILL TO COMPANY Trelleborg CRP Inc. Trelleborg CRP Inc. All metals Oil And Grease SEND REPORT TO INVOICE ATTN Lee Gunter Lee Gunter ADDRESS ADDRESS 1902 Rankin Road 1901 Rankin Road CITY/STATE/ZIP CITY/STATE/ZIP 0 Houston, TX 77073 Houston, TX 77073 Q PHONE 281-774-2600 281-774-2600 PHONE R FMAIL ADDRESS FAX 281-774-2600 FAX TestAmerica Project 99005856 PRESERVE F SAMPLE MATRIX SAMPLE DATE SAMPLE TIME # CONTAINER A B C SAMPLE DESCRIPTION SAMP NO. STORM TROODER 5-2-08 10:3000 14DAYS Airbill Shipment Method: No.: Required TurnAround: Sampler: Date Date 2. Relinquished By: 3. Relinquished By: 1. Relinquished By: Lee Grunter Company Name: 15:00 Time Company Name: 2. Received By: 3. Received By: Date 1. Received By:

TestAmerica Laboratories, Inc.

Company Name:

6310 Rothway Drive

Houston, TX 77040

Company Name:

713-690-4444 FAX 713-690-5646

Company Name:

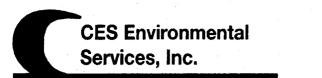
Time

rpjsckl Job Sample Receipt Checklist Report V	2
Job Number:: 353602 Location:: 57216 Check List Number:: 1 Description:: Customer Job ID: Job Check List Date:: Date of the Report.:: 05/02/200 Project Number:: 99005856 Project Description:: Project Manager: jlr Customer: Trelleborg CRP Inc. Contact:: Lee Gunter	8
Questions ? (Y/N) Comments	
Chain of Custody Received? Y	
If "yes", completed properly? N NOT FILLED OUT CORRECTLY	
Custody seal on shipping container? N	
If "yes", custody seal intact?	
Custody seals on sample containers? N	
If "yes", custody seal intact?	
Samples chilled? Y	
Temperature of cooler acceptable? (<=6 Deg C). Y 2.2	
If "no", is sample an air matrix?(no temp req.)	
Thermometer ID Y 439	
Samples received intact (good condition)? Y	
Volatile samples acceptable? (no headspace)	
Correct containers used? N	
Adequate sample volume provided?N	
Samples preserved correctly? N	
Samples received within holding-time? Y	
Agreement between COC and sample labels? Y	
Radioactivity at or below background levels? Y	
Additional	
Additional Comments.	
Sample Custodian Signature/Date Y TFC	

Page 1

1 Trans

EPAHO108000153



4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 5/21/2008

Dear Ed Wickham

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2790

Expiration Date 5/21/2010

Generator: Miller Transporters

Address:

Channelview, TX 77530

Waste Information

Name of Waste: used oil filters TCEQ Waste Code #: Recycle

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

used oil filters from trucks etc

Color: varies

Odor: hydrocarbon

**pH:** 6-9

**Physical State:** 

Incompatibilities: none

Safety Related Data/Special Handling:

none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



4904 Griggs Road, Houston, TX 77021 Phone: (713) 676-1460 Fax: (713) 676-1676

http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948

U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Infor					
Company: Miller Transportat	lion .	•			
Address: 15855 Wood Driv	re .			*	
City: Channelview	State:	TX	Zip:	¥ (	77530
Contact: Ed Wickham		Title:	Washrack Man	ager	
	457-6348		281-457-6028		<del></del>
24/hr Phone Number:	10. 40.0	_ :		45 2	:
	981053325	_			
State ID No:		4 SIC Code:	NA	i e	
Otale ID No.	400	4 SIC C008.	11/2/	1. 1 ·	
SECTION 2: Billion informati	Non 🗂 Samo oo Abaya				
SECTION 2: Billing Informat			•		
Company: Miller Transporter	78	· · · · · · · · · · · · · · · · · · ·	· · ·	# T	
Address: PO Box 386			•	<b>3</b> 1	
City: Channelview	State:	TX.	_ <b>Z</b> ip:	ł (	77530
Contact: Ed Wickham		Title:	Washrack Man		
Phone Number: 281-	457-6348	Fax Number:	281-457-6028	獻 .	
•		_		<b>3</b>	
SECTION 3: General Descrip	ption of the Waste				•
Name of Waste: Used	d Oil Filters				
Detailed Description of Proc			· · · · · · · · · · · · · · · · · · ·	36, 7 30, 3	<u> </u>
Detailed Description of 1 100	oss denorating waste			<b>k</b> :	
I lood all filtore from to also at a					
Used oil filters from trucks, etc	<u> </u>	<del>-</del> .	<del> </del>	1	<del></del>
Physical States		_	<b>.</b>		
Physical State:    Liqu			Powder	1	•
☑ Solic	d 🔲 Filter Ca	ke 🔲	Combination		
<u></u>			•	<b>.</b>	•
Color: <u>varies</u>		Odor:	hydrocarbon		
		•			
Specific Gravity (water=1):		2	Density:	0.4 lbs/gal	
				61 s	;
Does this material contain a	ny total phenolic compounds	i? 🖺 Y€	s 🔽 No		•
•	,	•	'		
Does this material contain a	ny para substituted phenolic	compounds?	Yes	. ☑ No	
		•	, —		
Is the Waste subject to the b	enzene waste operation NES	HAP? (40 CFR	Part 61. Subpar	t.FF) □	Yes 🖸 No
	ntains benzeneAND if the SIC o				-
2812 2813	2816 2819 282			1. 2	2833 2834
2835 2836	2841 2842 284		,	1: 5	2865 2869
2873 2874	2876 2879 289			i, u	2899 2911
· 3312 4953		2092	2093	2000	2009 2011
3312 4893	4959 9511				
Lavores (7) Olympia w	share T Belief share				
Layers:	phase 🔲 Multi-phase				
		7	_ :	i de	
Container Type: 🗵 Drun	n 🔲 Tote 🔲 Truck 🕻	] Other (explain	n)	1. 1	
· ,	<u></u>			r.	
Frequency: Weekly 🗹 1	Monthly 🔲 Yearly 🔲 One	-Time	:	AÍ.	
Quantity:	<b>1</b>		j		• • • •
770 Calls					
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	'F" or "K" Lis then please				Y	28	/ No		
<b>CFR 26</b>	ommercial pr 1.33(e) or (f): , then please	?		Yes [	carry a "U" or " ☑ No	P" waste	code under		
xas Staf	le Waste Cod	ie Number:		RECYCL		- :			:
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ass;	NA	UN/NA:	NA	_PG:	NA	_RQ:	NA .		
Flor	h Pojnt		оН	Dog.	tive Sulfides	Reactly	/e Cyanides [	Sol	ids
	140 700		<del>3-9</del>	0	mg/l	0	mg/l	100	%
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CTION	5: Safety Re						D-99		

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RECTION & AMARIA	Supporting Documents		•	
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approval package.	None		<u> </u>	
		<del></del>	<u> </u>	1. 1
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SECTION 7: Incompa				
Please list ALL incomp	atibilities (if any);			
None known		· ·		
		• • • • • • • • • • • • • • • • • • • •		
SECTION 8: Generate	or's Knowledge Documentat	<u>lon</u>		
Laboratory analysis of	the hazardous waste characte	ristics, listed below, W	AS NOT PERFOR	MED
	ng generator knowledge:			
			:	
TCLP Metals:	<b>x</b> .			1.4
TCLP Volatiles:	X	· · · · · · · · · · · · · · · · · · ·		<del> </del>
TCLP Semi-Volatiles:	X	<del></del>		8
Reactivity:	X	<del></del>	<del></del>	7
Corrosivity:	X	<del></del>		
Ignitability:	<del>\( \frac{\cappa}{\chi} \)</del>		- 4	4
igi mabiniy.				
SECTION 9: Waste Rec	eipt Classification Under 40 CF	R 437 (Prialping to Pre	-Treatment Requir	ements for Centralized Waste
Treatment Facilities)		1, 42, 1, 74, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,		
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	, complete this section.	•	_ #	<u>;</u> —
PLEASE C	HECK THE APPROPRIATE BO	X, IF NO APPROPRIAT	TE CATEGORY, GO	TO THE NEXT PAGE.
Motole Cubentomore C		• .		į
Metals Subcategory: St	oplating baths and/or sludges		. · · · · · · · · · · · · · · · · · · ·	5
	ng rinse water and sludges			
Chromate w		,		4
	control blow down water and slu	dnes		
☐ Spent anodi	zing solutions	4800		
	wastewaters			
☐ Waste Ilquid		* * * * * * * * * * * * * * * * * * *		<b>a</b>
Cyanide-cor	ntaining wastes greater than 136	mg/l		1
☐ Waste acids	and bases with or without metal	s		
Cleaning, rir	nsing, and surface preparation so	lutions from electropiatin	ng or phosphating op	erations
☐ Vibratory de	burring wastewater			
☐ Alkaline and	l acid solutions used to clean me	tal parts or equipment		
Oils Subcategory: Subj			ř	_
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Lubricants				
Coolants		•		
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Used petrois	eum products			
Oli spili clea			1.	
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•	•			

					<b>事</b> 机		•
	☐ Interceptor wastes						•
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	Tank clean-out from petroleum or olly sources		• :		Į, t	•	
						•	
	Non-contact used glycols		•	+1	1 3	•	
	Aqueous and oil mixtures from parts cleaning of	perations			b a		•
	☐ Wastewater from oil bearing paint washes	1	;		(1)		
				i		•	
Organic	es Subcategory: Subpart C			. :	# (		:
	☐ Landfill leachate	•		•			
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		Len Algaritt Sami 500		7		•	
	Solvent-bearing wastes	•			<b>f</b> (		
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	☐ Byproduct waste glycol	•					
	Wasiewater from paint washes			· ·	<u>k</u> t	•	
	☐ Wastewater from adhesives and/or epoxies form	nulation		•			
	Wastewater from organic chemical product oper		•				-
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	Tank deal-out noil of Saule, hou-bendeaut sor	11.000	• .				
			:		<u>.</u>		
(1)					i		
	If the waste contains oil and grease at or in exc	ess of 100 mg/L, the	e waste sh	ioniq pe cias	sified in th	ie oils subc	ategory.
			:	;		•	
(2)				į		;	
	If the waste contains oil and grease less than 10	00 mg/L, and has a	ny of the p	ollutanta list	ed below I	n concentra	ations in
	excess of the values listed below, the waste sho						
•		Duid de Cigosineu III	THE HELDR	a announced	. X.		
	Cadmium: 0.2 mg/L	* .	• •	4			•
•	Chromium: 8.9 mg/L				! !	•	
	Copper: 4.9 mg/L			. :			
	Nickel: 37.5 mg/L		•	3	( )		
	Mickell 37.3 High			1	:	•	
		•	٠٠.	*	;		
463				34	i :		
(3)	•					•	
(3)	If the waste contains oil and grease less than 10						um, copper,
(3)	If the waste contains oil and grease less than 10 or nickel above any of the values listed above, t						um, copper,
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# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):
\$35.00/drum disposal,
2. Contamination Limit (maximum limit before surchages apply):
None
none -
<del></del>
3. Surcharge Pricing:
None
4. Special Testing Requirements:
None
5. Treatment and Handling Protocol:
RECYCLE - patin recyclable sollds box; oil filter recycles material to oil filter recycler.
,
6. Treated Wastewater Discharge Subcategory:
☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



# PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

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2791 TBC Briandd (Blue Ridge) 2791

4904 Griggs Road Houston TX 77021 Tel. (713) 676-1460 Fax. (713) 676-1460

# Waste Pre-Acceptance/Approval Letter

Date 5/22/2008

Dear Zac or Dave

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2791

**Expiration Date** 

Generator: TBC Brinadd (Blue Ridge)

Address: 5035 McHard Rd

Blue Ridge, TX 77056

**Waste Information** 

Name of Waste: Lubetex

TCEQ Waste Code #: CESQ4091

**Container Type:** 

**Detailed Description of Process Generating Waste:** 

out of spec/out of date

Color: amber

Odor: bland

**pH:** 2-12.5

**Physical State:** 

Incompatibilities: na

Safety Related Data/Special Handling:

na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President CES Environmental Services, Inc.



# CES Environmental Services, Inc.

4904 Griggs Road Phone: (713) 676-1460 Houston, TX 77021 Fax: (713) 676-1676

http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DB

SECTION 1: Gene	rator Information			
Company:	TBC BRINADD			
Address:	MC HARD 5035			
City, State, Zip:	HOUSTON, TX			
Contact:	ZAC MCKAUGHAN		Title:	
Phone No:	936-483-3662		Fax No:	
24/hr Phone:	281-541-4829			
U.S. EPA I.D. No:	TXCESQG		•	
State I.D.	CESOG		SIC Code:	
SECTION 2; Billin	g Information - Same as Above			
Company:	CKG SERVICES, LLC			
Address:	10707 HONEA EGYPT ROAD			
City, State, Zip:	MONTGOMERY, TX 77316			
Contact:	ZAC MCKAUGHAN	Title:	PRESIDENT	
Phone No:	936-483-3662	Fax No:	936-756-1226	
Name of Waste: LI	ral Description of the Waste    BETEX   n of Process Generating Waste: OU	T OF SPEC/O	OUT OF DATE	
Physical State:	<ul><li>☑ Liquid</li><li>☐ Sludge</li><li>☐ Solid</li><li>☐ Filter Ca</li></ul>	ike [	Powder Combination	
Color: <u>AMBER</u>	Odor: <u>BLAND</u>			
Specific Gravity (w	nter=1); <u>.900972</u> Density	: NA lbs/gal		
Does this material c	ontain any total phenolic compound	s? 🗌 Yes	⊠ No	
Does this material c	ontain any para substituted phenoli	c compounds	? 🗌 Yes 🛮 No	
Layers:	Single-phase Mu	lti-phase		
Container Type: Container Size:	☐ Drum ☒ Tote 350 GA	ř	Truck	Other (explain)
Frequency: Number of Units (co	Tada Na	Z FULL	Quarterly 🛛	Yearly
Proper U.S. DOT SI	<u>CESQUOW</u>	ZNON DOT		
Kinhet (12) BOY 21	* * * * * * * * * * * * * * * * * * * *			
Class:	UN/NA:		PG:	RQ: Ma

Flash Point	pH 2-12.5	Reactive Sulfides mg/l	Reactive Cyar		ds 46%
Oll&Grease	TOC Mm mg/l	Zinc W mg/l	Copper N / mg/l	Nickel Mg/l	
SECTION 4: Phy	sical and Chemical				
The	COMPONEN e waste consists of the	he following waterials		oncentration es are acceptable	Units or %
TEXANOL			100		%
	• .				
SECTION 5: Safe	ty Related Data				
	his waste requires t	he use of special protectiv	e equipment, please e	xplain.	
<u>NA</u>					
	ched Supporting Do		April 1985		
List all documents. <u>MSDS</u>	, notes, data, and/or	analysis attached to this	form as part of the wa	ste approval paci	cage.
SECTION 7: Inco	mpatibîlities				
Please list all incon <u>NA</u>	npatibilities (if any):	!			
SECTION 8: Gen	erator's Knowledge	<b>Documentation</b>	•		
Laboratory analysi generator knowled		waste characteristics, liste	d below, WAS NOT I	PERFORMED ba	sed upon the followin
TCLP Metals:	_ 				
TCLP Volatiles:	<u>0</u>				
TCLP Semi-Volati Reactivity:	les: <u>0</u> <u>0</u>				
Corrosivity: Ignitability:	<u>o</u>				
	_				
	erator's Certification	n ed on <b>generator knowle</b>	das and/or Monalitic	aldata I harabu	cartific that the nhouse
attached description omissions of compo	is complete and ac sition properties exi	curate to the best of my is st and that all known or st lescribed by this document	knowledge and ability ispected hazards have	to determine that	no deliberate or will
Authorized Signatu	2			)ate: <u>5-20-08</u>	
Printed Name/Title	E ZAC MCKA	AUGHAN/PRESIDENT			
CES USE ONLY (DO N	OT WRITE IN THIS SI	PACE)	· · · · · · · · · · · · · · · · · · ·		
Compliance Officer:	Lobert	14	•		
	-08 An	proved Rejected			•
	( **				

# TBC-BRINADD

A DIVISION OF TEXAS UNITED CHEMICAL CO., LLC

4800 San Felipe Houston, TX 77056 www.tbc-brinadd.com

# MATERIAL SAFETY DATA SHEET

**Product: Lubetex** 

Revision: 4

Product Code: 6540/6541

Issue Date: 03/05/07

# SECTION I - PRODUCT AND COMPANY IDENTIFICATION

(As used on label and list)

#### LUBETEX

#### DISTRIBUTED BY:

TBC-BRINADD 5035 McHard Street Houston, Texas 77053

**EMERGENCY TELEPHONE NUMBER: (281) 438-2565** 

INFORMATION TELEPHONE NUMBER:

(713) 877-2769

# SECTION II - COMPOSITION / INFORMATION ON INGREDIENTS

		_0000	<u> </u>	
COMMON NAME	EC No.	CAS-NO.	Content, %	Classification
Proprietary		-		-
Ingredients				<u> </u>

## SECTION III - HAZARDS IDENTIFICATION

Emergency Overview: Amber liquid; bland odor.

This product is not expected to be hazardous under normal conditions of use according to the criteria of the OSHA Hazard Communication Standard (HCS)

# Potential Health Effects:

Eye contact: Contact with liquid or mist may cause mild eye irritation.

Skin Contact: Not expected to be a primary skin irritant or toxic by skin contact. However, prolonged contact or poor industrial hygiene practices may cause mild skin irritation.

Inhalation: This product is not expected to be toxic by inhalation.

<u>Ingestion:</u> The oral toxicity and effects of ingestion of this product are not known. However, in normal industrial use, ingestion is not considered a probable route of exposure.

<u>Chronic:</u> There are no known chronic effects from exposure to this product.

The components of this product are either below reportability requirements or not known to cause target organ effects.

See section XI Toxicological Information for additional information.

# SECTION IV - FIRST -AID MEASURES

<u>Inqestion:</u> If conscious, immediately rinse mouth and give large quantities of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. Rest in half-upright position. Get medical attention if necessary.

<u>Skin Contact:</u> Wash skin thoroughly with soap and water. Get medical attention if irritation persists. Launder contaminated clothing before reuse.

Eye Contact: Immediately rinse with water. Remove contact lenses. Hold eyelids apart and flush eyes with water for at least 15 minutes. Get medical attention if irritation occurs.

# SECTION V - FIRE-FIGHTING MEASURES

Flash Point (Method Used): >200 °F (COC)

Flammable Limits:

LEL:

0.6 (300°F)

UEL:

4.2% (394°F)

Extinguishing Media:

Water spray, dry chemical, or CO2

Fire Fighting Instructions:

Use self-contained breathing apparatus and protection for skin.

Combustion Products:

irritating fumes and toxic gases.

Carbon dioxide, carbon monoxide

Carbon dioxide, carbon monoxit

Special Hazards:

Water runoff can cause environmental damage. Dike and collect water used to fight fire.

Unusual Fire and Explosion Hazards:

Never use welding torch on or near drum (even empty) product or residue can ignite explosively.

## <u>SECTION VI - ACCIDENTAL RELEASE MEASURES</u>

#### Spill and Leak Procedures:

- Stop leak if you can do so without risk.
- Use PPE appropriate to spill size and risk of exposure.
- Confine spillage and absorb on sand, sawdust, or other available solids.
- Uncontaminated spilled material may be reused.
- Retain all contaminated water for removal and treatment. DO NOT Flush to sewer.

# **SECTION VII - HANDLING AND STORAGE**

#### Handling:

- Avoid eye contact. Avoid repeated or prolonged skin contact. Use proper protective equipment. (See Section VII)
- Avoid breathing mist or vapor. Use only in a well ventilated area.
- Wash thoroughly after handling.
- Eyewash stations and safety showers should be easily accessible to areas where product is used.

#### Storage:

- Covered storage of portable containers is recommended.
- Keep containers closed when not in use.
- Protect from freezing.
- Store away from incompatible materials. (See Section X)

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Common Name	OSHA PEL	ACGIH TLV	OTHER RECOMMENDED LIMITS
Proprietary	None	None	For Oil Mist: NIOSH REL: TWA 10 mg/m³ (total) TWA 5 mg/m³ (resp)  OSHA PEL: TWA 15 mg/m³ (total) TWA 5 mg/m³ (resp)
Ingredients	established	established	

<sup>\*</sup>All components are listed on TSCA

## Protective Equipment

Skin: Rubber or neoprene gloves. Wear additional protective clothing as appropriate to protect skin.

<u>Respiratory:</u> None required under normal conditions of use. If engineering controls do not maintain airborne concentrations below acceptable levels, then appropriate (mist, OV) NIOSH/MSHA approved respiratory protection should be worn.

<u>Ventilation:</u> Good ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc.

Eyes and Face: Safety glasses or chemical safety goggles.

# SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 

225° F

Specific Gravity (H2O = 1): 0.900 - 0.972

Vapor Pressure (mm Hg.): 1 @ 190

**Melting Point:** 

45 ° F

Vapor Density (AIR = 1):

7.45

Evaporation Rate (Butyl Acetate = 1):

0.002

Appearance and Odor: Amber liquid with bland odor

Solubility in Water:

Moderate

# SECTION X - STABILITY AND REACTIVITY DATA

Chemical Stability: This product is stable under the recommended storage conditions.

Conditions to Avoid: None known.

Incompatibility with Other Materials; Avoid contact or contamination with strong oxidizers.

Hazardous Decomposition or By-products: None known.

Hazardous Polymerization; Hazardous Polymerization will not occur.

Special Remarks: No additional information.

# SECTION XI - TOXICOLOGICAL INFORMATION

Eve: This product may be a mild eye irritant.

Dermal: This product is not expected to be a primary skin irritant or dermally toxic.

Inhalation: This product is not expected to be acutely toxic by inhalation. The effects of prolonged inhalation of this product are not known.

Oral: The oral toxicity and effects of ingestion of this product are not known.

Chronic Effects

Carcinogenicity: Not listed as carcinogen by IARC, NTP, OSHA or ACGIH.

Other Chronic Effects: There are no known chronic effects to this product.

#### SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: No Information available.

## SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of absorbed material in accordance with all federal, state, and local regulations. Dispose of contaminated water in a contained waste treatment system.

RCRA: The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any EPA's four tests for determining hazardous wastes. Note: If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

# **SECTION XIV - TRANSPORT INFORMATION**

All Components on TSCA Inventory:

DOT Shipping Name: Not Regulated DOT Hazard Class: Not Regulated

DOT Labels:

UN Number:

DOT Marine Pollutant:

Ozone Depleting Substance:

Not Listed

HMIS Code: Health: 1 Fire: 1 Reactivity: 0

Yes

Schedule B Number: 1518.00.0000

# **SECTION XV - REGULATORY INFORMATION**

<u>Federal Regulations</u>: The following regulations may have reporting requirements for the components listed.

#### CERCLA/SARA

Emergency Reporting: Spills or releases of this material do not currently trigger the emergency release reporting requirements under CERCLA or SARA Title III. State or local reporting requirements may differ from federal requirements. Consult counsel for further guidance on your responsibilities under these laws.

TSCA: All components of this product are listed on the Toxic Substances Control Act Inventory or are excluded form listing requirements.

# **SECTION XVI - OTHER INFORMATION**

**REVISIONS** 

June 19, 1998 1.) Addition of Revision Section

2.) Addition of Disclaimer
3.) Changed flash point

September 10,1998 1.) Included additional First Aid information in SECTION VI

2.) Edited SECTION VIII

May 21, 2003 Rev 3 1.) Updated SECTION VI Health Hazard Data

2.) Updated SECTION VIII Control Measures

March 5, 2007 Rev 4 1.) Updated all sections

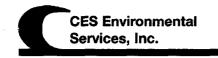
2.) Supercedes May 2, 2003 Rev 3

DISCLAIMER: The Information herein is given in good faith but no warranty, expressed or implied, is made.



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1.	Base Pricing (including freight):
	\$65/dm
Ì	
2.	Contamination Limits (maximum limit before surcharges apply):
	Na
l	
3.	Surcharge Pricing:
	None
ļ	
Į	
4.	Special Testing Requirements:
Ī	None
5.	Treatment and Handling Protocol:
	Shred into or dump into class 1 solids or sludge box depending on liquid content for landfill
Į	
6.	Treated Wastewater Discharge Subcategory:
	☐ Subcategory A ☐ Subcategory B ☐ Subcategory C



# PROCESS FACILITY INFORMATION (CES USE ONLY!!)

/•	1ests for Froduct Recovered/Recycled (II applicable):
	Na
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_	
8.	
	Management for Product Recovered/Recycled (if applicable);
	Management for Product Recovered/Recycled (if applicable); Na